11.83

ITC

HDK-1125
HIGH DEFINITION COLOR CAMERA

昭和　　年　　月

Ikegami

池上通信機株式會社

HDTV COLOUR CAMERA SYSTEM INDEX

HDTV COLOUR CAMERA SPECIFICATIONS	
CAMERA SYSTEM Block Diagram	C2-217707
HEAD FRONT & REAR VIEW	K11-217450
HEAD REAR PANEL	K4-216202
HEAD UNIT LAYOUT	K3-216224
CCU RACK LAYOUT	K2-217451
EQUALIZER-1 LAYOUT	K11-216226
EQUALIZER-2 LAYOUT	K11-216227
PROCESS LAYOUT	K11-216228
MONITOR SELECT LAYOUT	K11-216231
PULSE BAY (FRONT) LAYOUT	K11-216232
PULSE BAY (REAR) LAYOUT	K11-216233
DRAWER LAYOUT	K11-216234
VIDEO CONNECTOR PANEL LAYOUT	K1-216235
WFM SHELF (FRONT) LAYOUT	K11-217452
WFM SHELF (REAR) LAYOUT	K11-217453
CONTROL PANEL LAYOUT	K1-216238
CAMERA POWER SUPPLY (FRONT) LAYOUT	K11-217454
CAMERA POWER SUPPLY (REAR) LAYOUT	K11-217455
CONTROL CONNECTOR PANEL LAYOUT	K21-216241
DM516H B/W MONITOR SPECIFICATIONS	
DM516H B/W MONITOR BLOCK DIAGRAM	Fig. 1
DM516H B/W MONITOR EXTERNAL APPEARANCE	Fig. 2
TM751HD 30" COLOUR MONITOR SPECIFICATIONS	
TM751HD 30" COLOUR MONITOR BLOCK DIAGRAM	Fig. 3
TM751HD 30" COLOUR MONITOR EXTERNAL APPEARANCE	Fig. 4
TE-02C CAM HEAD SPECIFICATIONS	
TT-17D TRIPOD SPECIFICATIONS	
TD-13 DOLLY SPECIFICATIONS	

HDTV COLOUR CAMERA SYSTEM INDEX

HDTV COLOUR CAMERA SPECIFICATIONS

CAMERA SYSTEM Block Diagram C2-21707

HEAD FRONT & REAR VIEW K11-21759

HEAD REAR PANEL K4-21620Z

HEAD UNIT LAYOUT K3-21622Y

CCU RACK LAYOUT K2-21745I

EQUALIZER-1 LAYOUT K11-21622G

EQUALIZER-2 LAYOUT K11-21622I

PROCESS LAYOUT K11-21622B

MONITOR SELECT LAYOUT K11-21623I

PULSE BAY (FRONT) LAYOUT K11-21623Z

PULSE BAY (REAR) LAYOUT K11-21623J

DRAWER LAYOUT K11-21623Y

VIDEO CONNECTOR PANEL LAYOUT K1-21623S

WFM SHELF (FRONT) LAYOUT K11-21745Z

WFM SHELF (REAR) LAYOUT K11-21745J

CONTROL PANEL LAYOUT K1-21623B

CAMERA POWER SUPPLY (FRONT) LAYOUT K11-21745Y

CAMERA POWER SUPPLY (REAR) LAYOUT K11-21745S

CONTROL CONNECTOR PANEL LAYOUT K21-21624I

DMS16H B/W MONITOR SPECIFICATIONS

DMS16H B/W MONITOR BLOCK DIAGRAM Fig. 1

DMS16H B/W MONITOR EXTERNAL APPEARANCE Fig. 2

TM25HD 30" COLOUR MONITOR SPECIFICATIONS

TM25HD 30" COLOUR MONITOR BLOCK DIAGRAM Fig. 3

TM25HD 30" COLOUR MONITOR EXTERNAL APPEARANCE Fig. 4

TE-02C CAM HEAD SPECIFICATIONS

TT-17D TRIPOD SPECIFICATIONS

TD-13 DOLLY SPECIFICATIONS

HDTV COLOUR CAMERA SPECIFICATIONS

1. General

This specifications provides about High Definition TV Camera (Number of scanning lines : 1,125, Number of frame : 30, Line interlace ratio : 2:1, Aspect ratio : 5:3, Horizontal scanning frequency : 33.75KHz, Vertical scanning frequency : 60Hz)

2. Configuration

Item	Q'ty	Remarks
1) CAMERA HEAD		
(1) Camera Head	1	with Saticon tube
(2) VF	1	7"
2) CCU (VIDEO RACK)		
(1) EQA-1	1	
(2) EQA-2	1	
(3) PROCESS	3	
(4) MONI SELE	1	
(5) PULSE	1	
(6) CN PANEL	1	
(7) VIDEO RACK	1	
3) CCU (CONTROL RACK)		
(1) CONTROL PANEL	1	
(2) MONI SELE PANEL	1	
(3) DIGITAL REGISTRATION COMP	1	incorporating in Control Panel and Camera Head
(4) CAMERA POWER	1	
(5) WFM MONITOR	1	TEKTRONIX 2235 TYPE
(6) B/W MONITOR	1	19" DM-516H
(7) CN PANEL	1	
(8) CONTROL RACK	1	
4) CAMERA CABLE	1	10m
5) SYNC SIGNAL GENERATOR	1	installed in Video Rackmount
6) Tripod Mount		
(1) Camhead	1	TE-02C
(2) Tripod	1	TT-17D
(3) Dolly	1	TD-13
7) ZOOM LENS	1	FUJINON G14x14 SD-3 All Servo

8) 30" COLOR MONITOR	1	TM751HD
9) SPARE TUBES (RGB)	1 set	
10) Accessory		
(1) HEAD EXTENDER	1	
(2) CCU EXTENDER	1	
(3) VF STUDIO HOOD	1	
(4) TEST PATTERN	1 set	
(5) Lamp & Fuse	3 sets	
(6) CONNECTION DIAGRAM & OPERATING INSTRUCTIONS	1	

3. Condition for use

Shall be tolerate in following conditions.

3-1 Ambient Temperature : 25°C ±15°C

3-2 Humidity : less than 90%

4. Rating and Abilities

4-1 Rating

1) Input signal

Phase referance signal			
B.B or SYNC, SC, PAL	PULSE	75 ohm	1 input each
Return video signal			
VS positive		75 ohm	1 input
Tally			
DC24V or contact closure			1 input

2) Output signal

R, G, B signal :	0.7V(p-p) positive	75 ohm	2 outputs
Phase reference signal:	HD negative	75 ohm	2 outputs
	VD negative	75 ohm	2 outputs
	BL negative	75 ohm	2 outputs
	SYNC negative	75 ohm	2 outputs
	DELAY SYNC negative	75 ohm	2 outputs
	SC sinewave	75 ohm	2 outputs
	PAL PULSE	75 ohm	2 outputs

3) Intercom — 4-wire system 0dBm 600 ohm
1 channel

4) Power requirements — AC 220V ±5% 50/60Hz

5) Camera cable — Max. external diameter : 22mm
Max. length : 150m

6) Dimensions

Camera head (mm):	277(W) x 520(H) x 601(D)
CCU video rack (mm):	510(W) x 1,303(H) x 600(D)
CCU control rack (mm):	510(W) x 935(H) x 600(D)

7) Weight

Camera head:	48kg approx.
CCU video rack:	150kg approx.
CCU control rack:	160kg approx.

4-2 Abilities

1) All around characteristic

* Frequency characteristic (standard 100KHz, each cable length)

60Hz - 30MHz: less than ±0.4dB

less than 60Hz or over 30MHz : drooping characteristics

* Wave form distortion

till 100% signal	DG less than 5%
till 200% signal	DG less than 10%

* Signal to Noise ratio

Randam noise	: over 40dB(p-p)/rms (G-ch)
Synchronous noise	: over 60dB(p-p)/(p-p)

Measurement shall be done in following circumstances

- Signal band width 30MHz (To standard G-ch signal current 0.4μA)
- Contour compensation 0, Liner matrix compensation OFF, Gamma 1.

* Resolution

Center:	Better than 1400 TV Line
Corner:	Better than 1000 TV Line

* Registration

0.9Hx0.9V area	Less than 0.025%
Other ares	Less than 0.1%

6) Dimensions

Camera head (mm): 277(W) x 320(H) x 601(D)

CCU video rack (mm): 310(W) x 1,303(H) x 600(D)

CCU control rack (mm): 310(W) x 935(H) x 600(D)

7) Weight

Camera head: 48Kg approx.

CCU video rack: 150Kg approx.

CCU control rack: 160Kg approx.

4-2 Abilities

1) All around characteristic

* Frequency characteristic (standard 100KHz, each cable length)

60Hz - 30MHz: less than ±0.4dB

less than 60Hz or over 30MHz : drooping characteristics

* Wave form distortion

till 100% signal DC less than 5%

till 200% signal DC less than 10%

* Signal to Noise ratio

Random noise : over 40dB(p-p)\rms (G-cb)

Synchronous noise : over 60dB(p-p)\(p-p)

Measurement shall be done in following circumstances

°Signal band width 30MHz (To standard G-cb signal current 0.4μA)

°Contour compensation 0, Liner matrix compensation OFF,
Gamma 1.

* Resolution

Center: Better than 1400 TV Line

Corner: Better than 1000 TV Line

* Registration

0.9Hx0.9V area Less than 0.025%

Other area Less than 0.1%

* Operation stability

Shall be satisfied all characteristic without re-adjustment when temperature change ±10°C in sphere 10°C ~ 40°C after 30 min. from power switched on.

(Ambient temperature 10°C ~ 40°C)

* Gamma compensation

1 or 0.45 ±0.05 Variable

2) Sensitivity

A scene illumination of 2000 lux at a lens opening of F/2.8 with a scene reflectance co-effection of 89.9%.

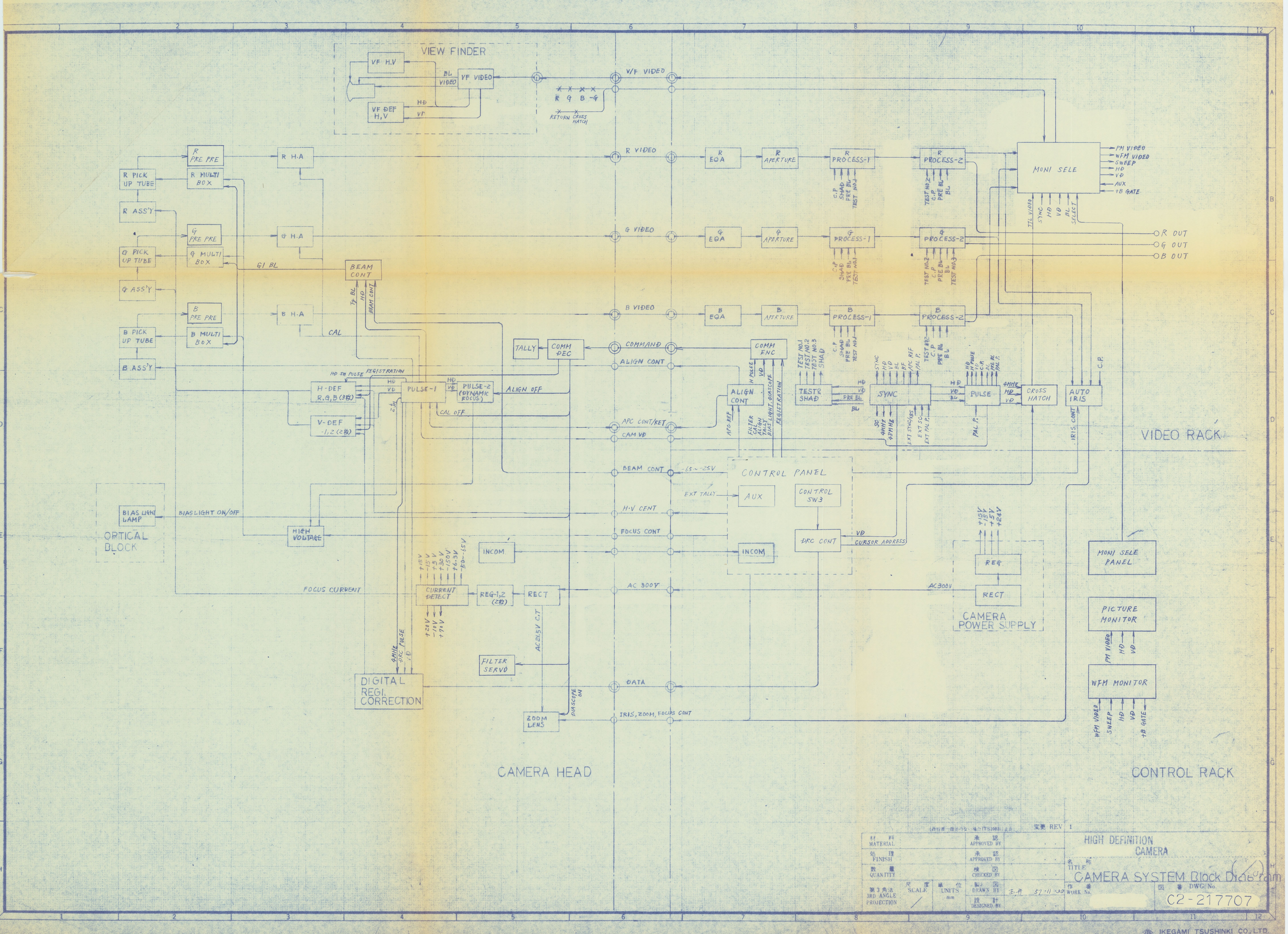
3) Other functions

a) Viewfinder has defrection magnificate ability

b) It is possible to operate optical filter on CCU

c) It is possible to operate lens on lens or CCU

4) Power Consumption 750W (without monitor)



材料 MATERIAL		承認 APPROVED BY	
処理 FINISH		承認 APPROVED BY	
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE /	単位 UNITS mm	製図 DRAWN BY 王丹 57.11.30
			設計 DESIGNED BY

変更 REV 1

HIGH DEFINITION CAMERA

名称 TITLE CAMERA SYSTEM Block Diagram

作番 WORK No.

図番 DWG. No. C2-217707

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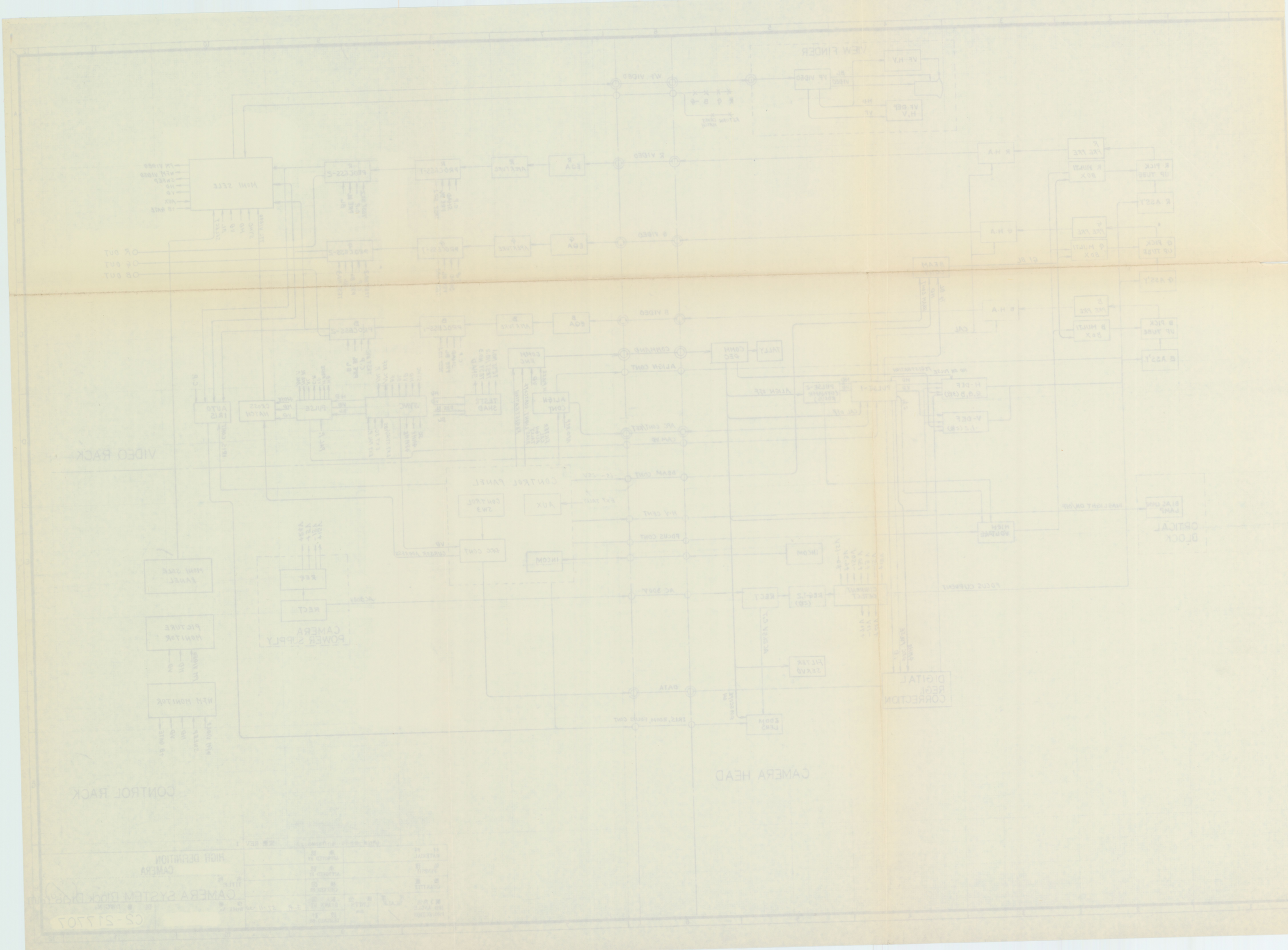
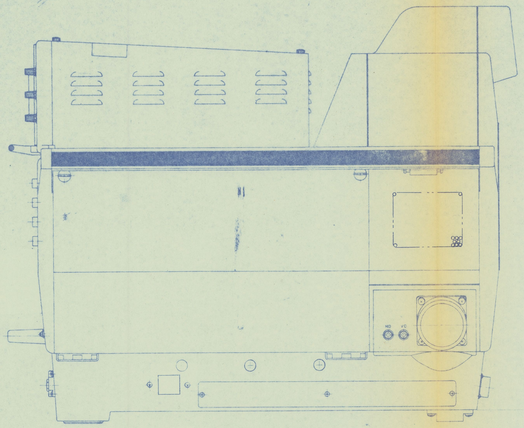
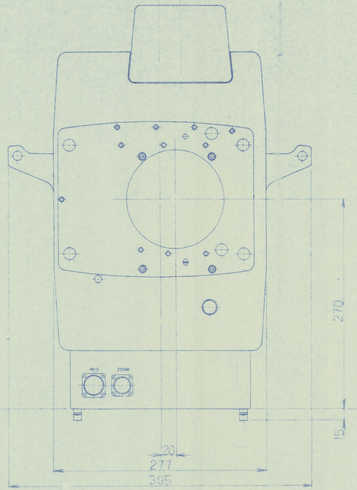
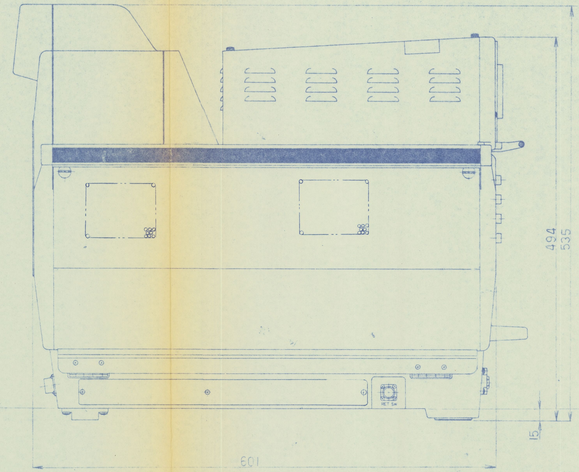




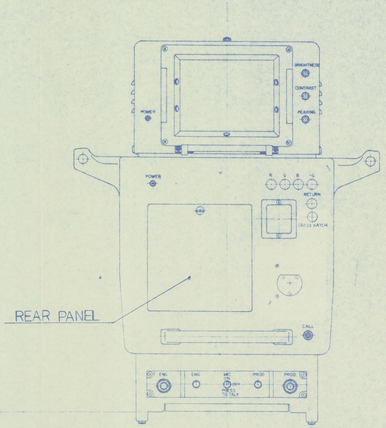
LEFT SIDE



FRONT



RIGHT SIDE



REAR

材料 MATERIAL		承認 APPROVED BY	水野明夫-2	変更 REV.	1
処理 FINISH		承査 ATTENTED BY	江村 57.11.2	名称 TITLE	HIGH DEFINITION CAMERA HEAD FRONT & REAR VIEW (1)
数量 QUANTITY		検図 CHECKED BY	王-9 57.11.2		
第3角法 1ST & 3RD PROJECTION	尺度 SCALE 1/4	単位 UNITS mm	製図 DRAWN BY	小川 57.11.30	作番 WORK No.
			設計 DESIGNED BY	小川 57.11.30	図番 DWG. No. K11-217450

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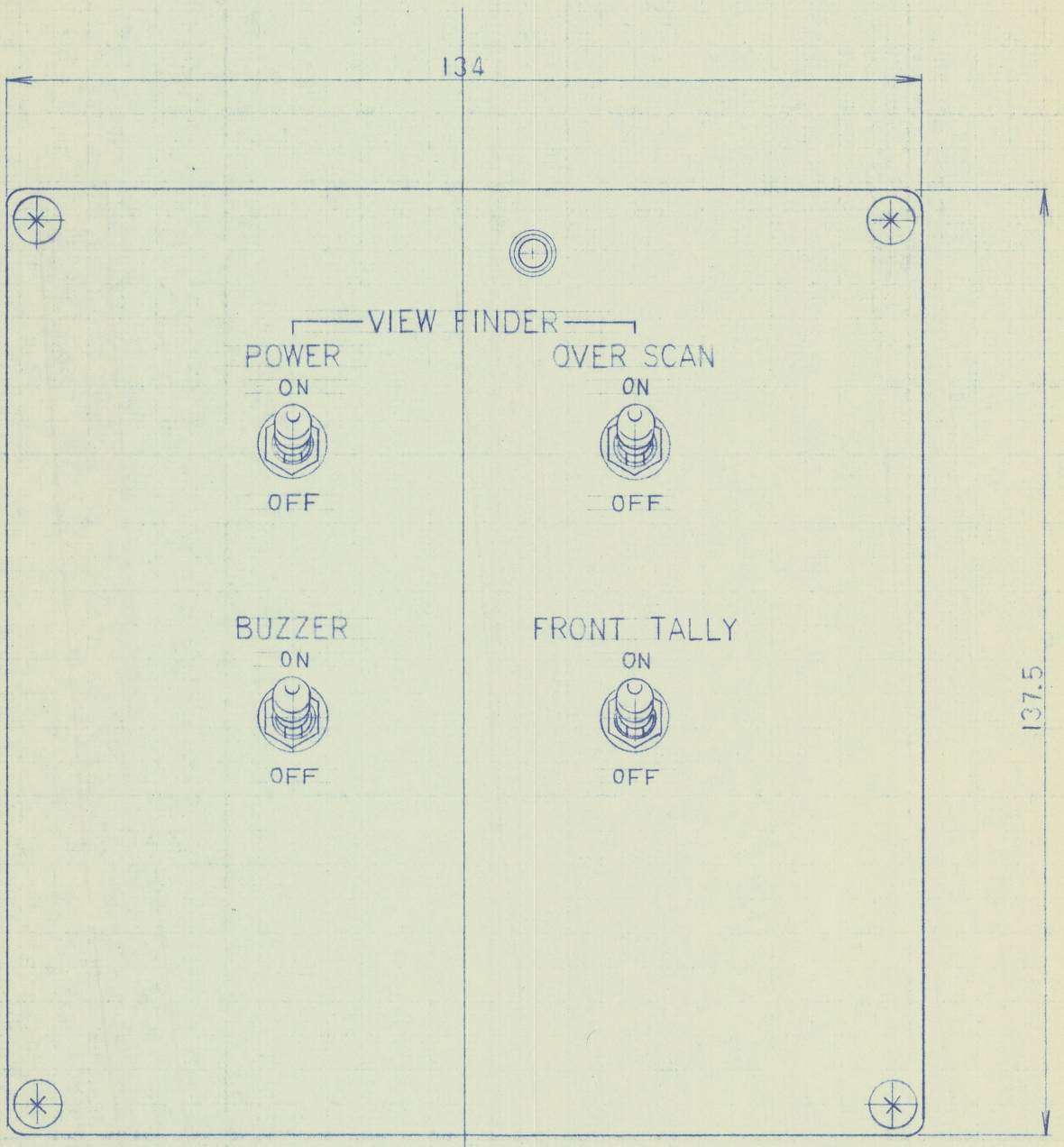

(許容差…指示のない場合ITS1003による)

変更 REV 1

材料 MATERIAL		承認 APPROVED BY	水梨 57. 12. 0.2	HIGH DEFINITION CAMERA
処理 FINISH		承認 APPROVED BY	仲川 57. 12. 0.2	
数量 QUANTITY		検図 CHECKED BY	王.井 57.12.2	名称 TITLE: HEAD REAR PANEL (/)
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1 / 単位 UNITS mm	製図 DRAWN BY	山田 57. 11. 3.0	作番 WORK No. / 図番 DWG. No. K4-216202
		設計 DESIGNED BY	山田 57. 11. 3.0	

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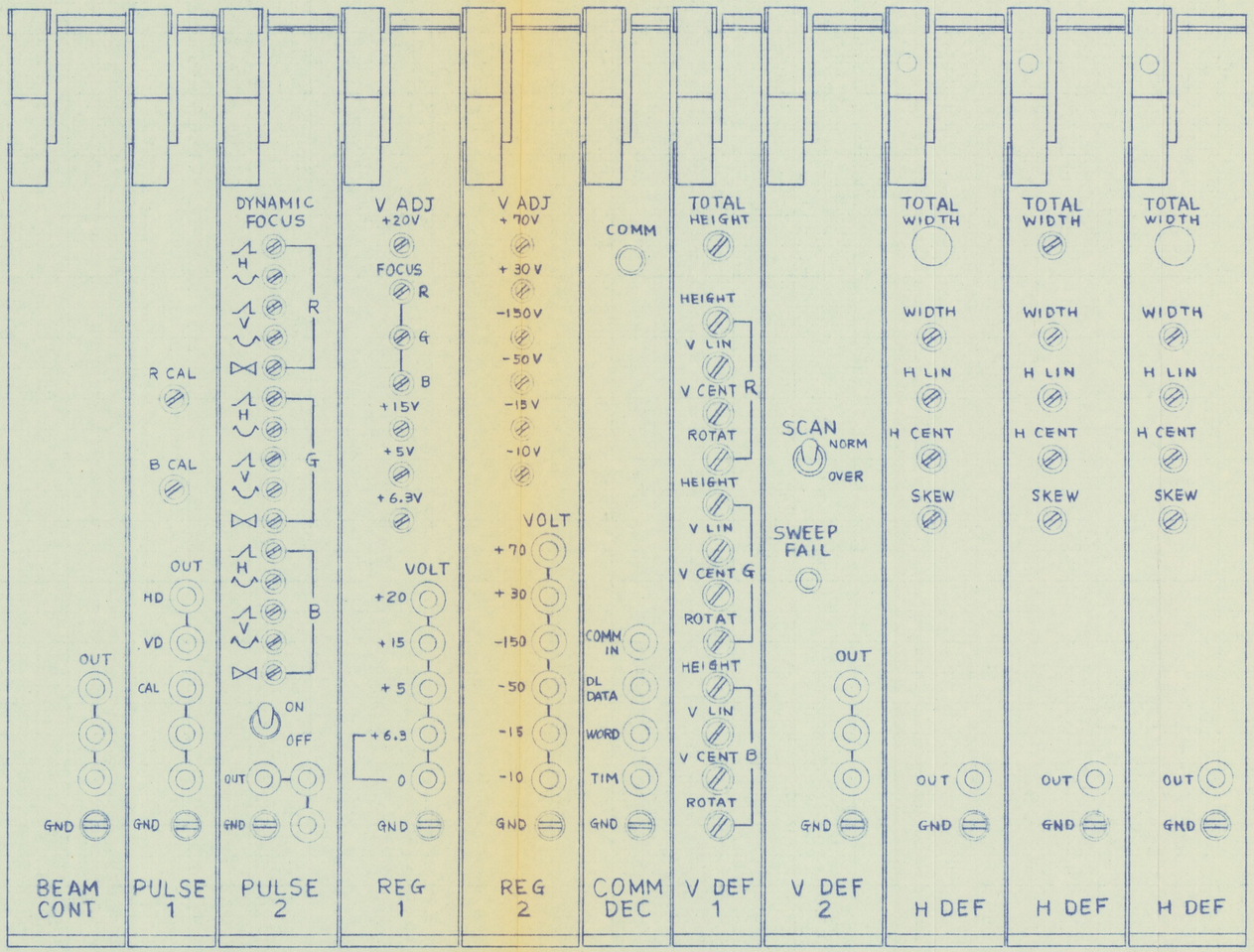
HIGH DEFINITION
CAMERA

HEAD REAR PANEL

K4-216202

IKEGAMI TSUSHINKI CO.,LTD.



(許容差…指示のない場合JIS1003による)

変更 REV 1

材料 MATERIAL		承認 APPROVED BY	
処理 FINISH		承認 APPROVED BY	57.12.13
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1 / 単位 UNITS mm	製図 DRAWN BY	57.12.4
		設計 DESIGNED BY	57.12.13

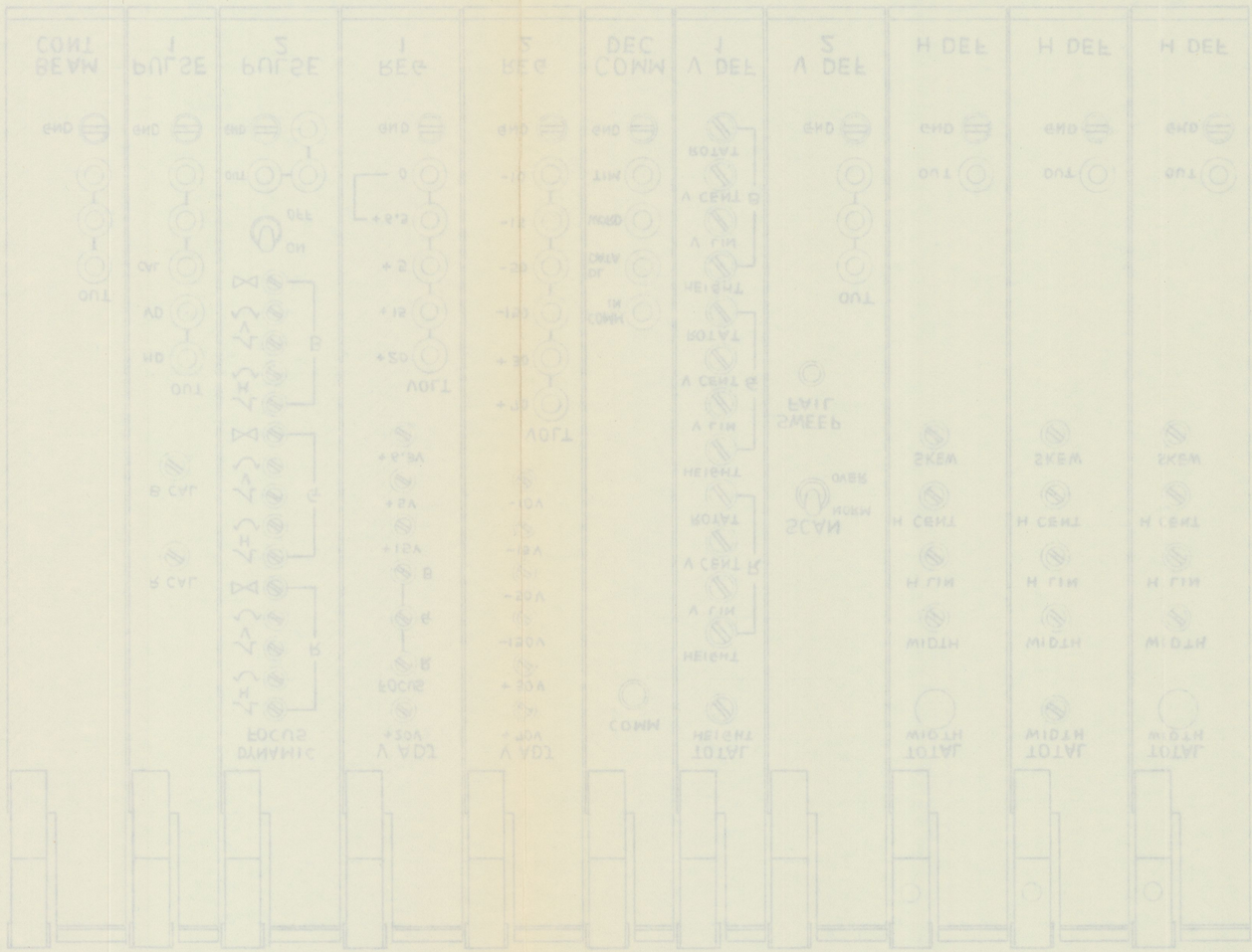
名称 TITLE HEAD UNIT LAYOUT (/)

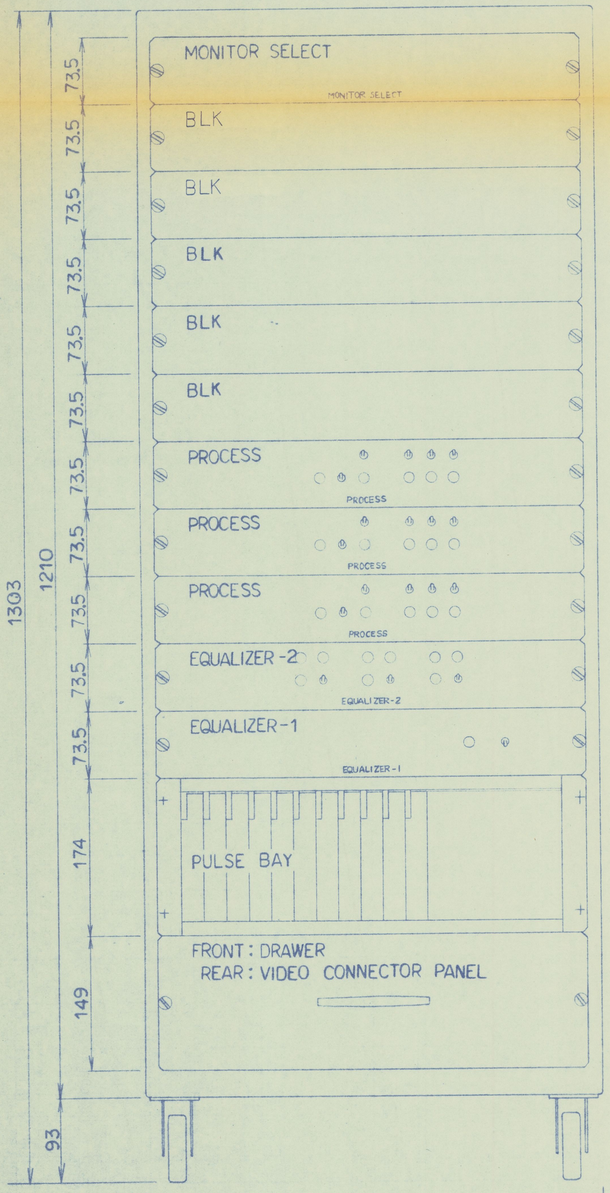
作番 WORK No.

図番 DWG. No. K3-216224

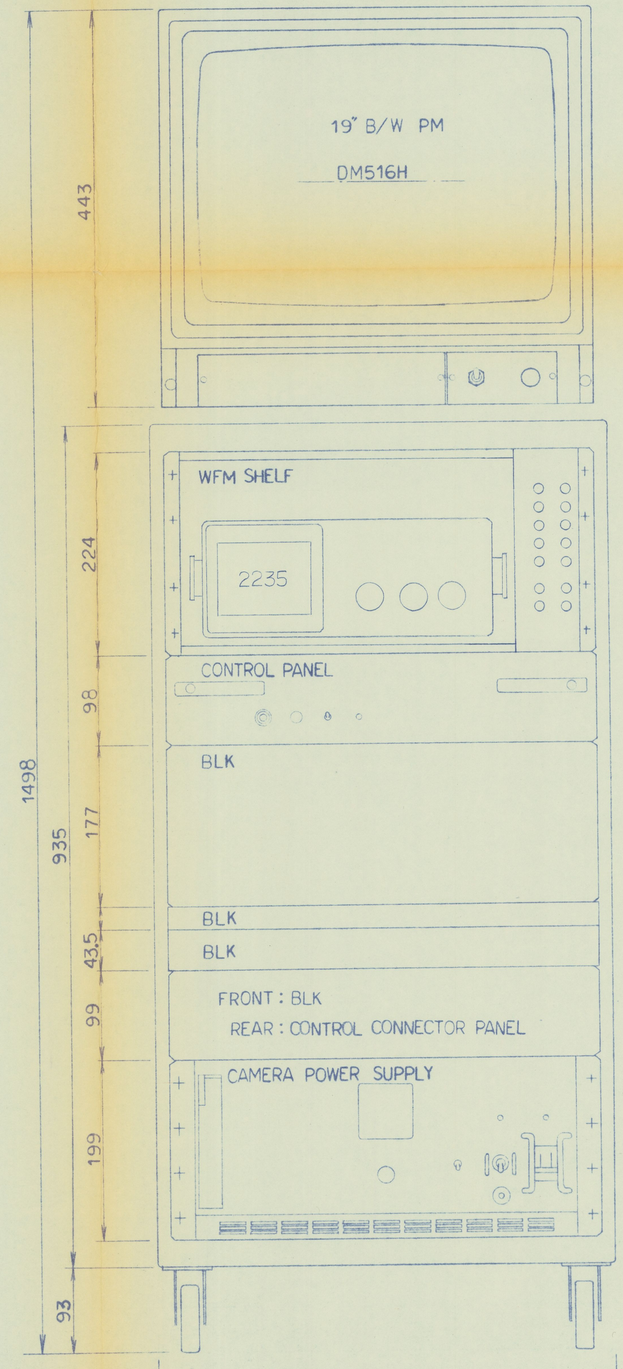
A-3

IKEGAMI TSUSHINKI CO., LTD.

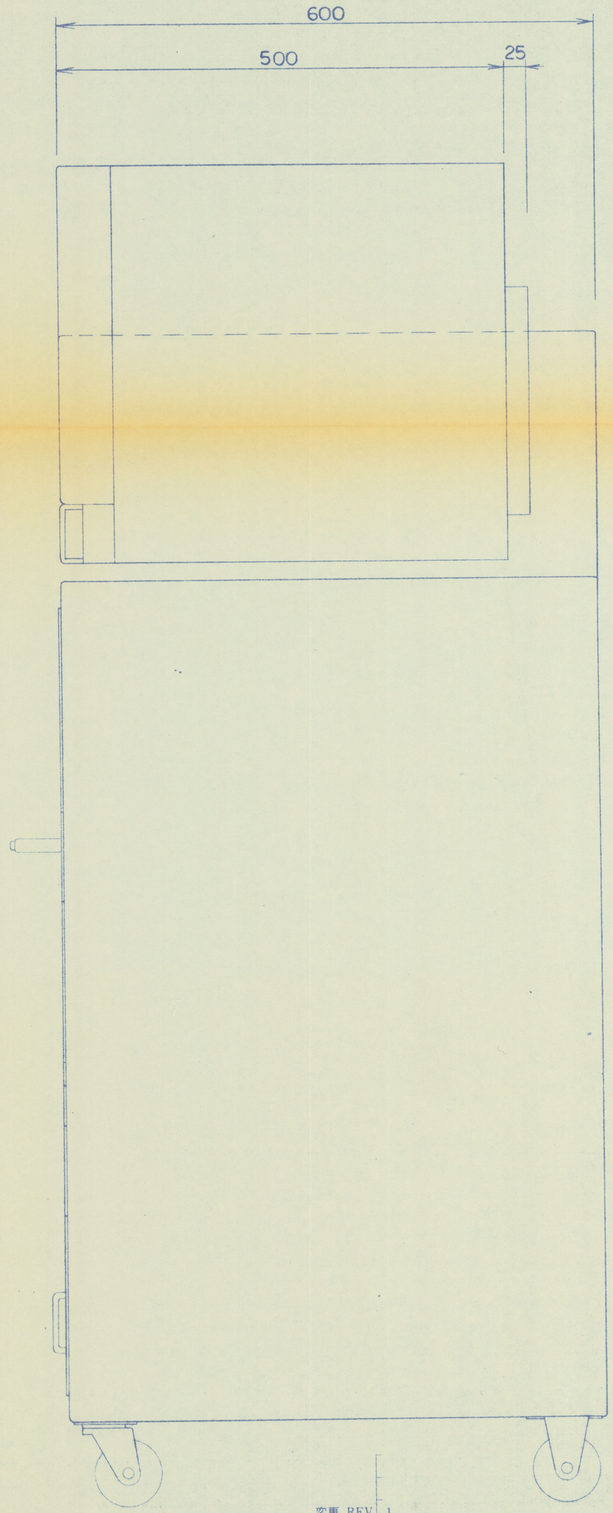

COMP
BEAM
PULSE
PULSE
REF
REF
COMM
V DEF
V DEF
H DEF
H DEF
H DEF
GND
OUT
ROTAT
V CENT
V FIN
HEIGHT
FAIL
SWEEP
SCAN
SKEW
H CENT
H FIN
WIDTH
TOTAL
DYNAMIC
FOCUS
V ADJ
V ADJ
COMM



VIDEO RACK



CONTROL RACK



(許容差 指示のない場合 JIS B 0403による) 変更 REV 1

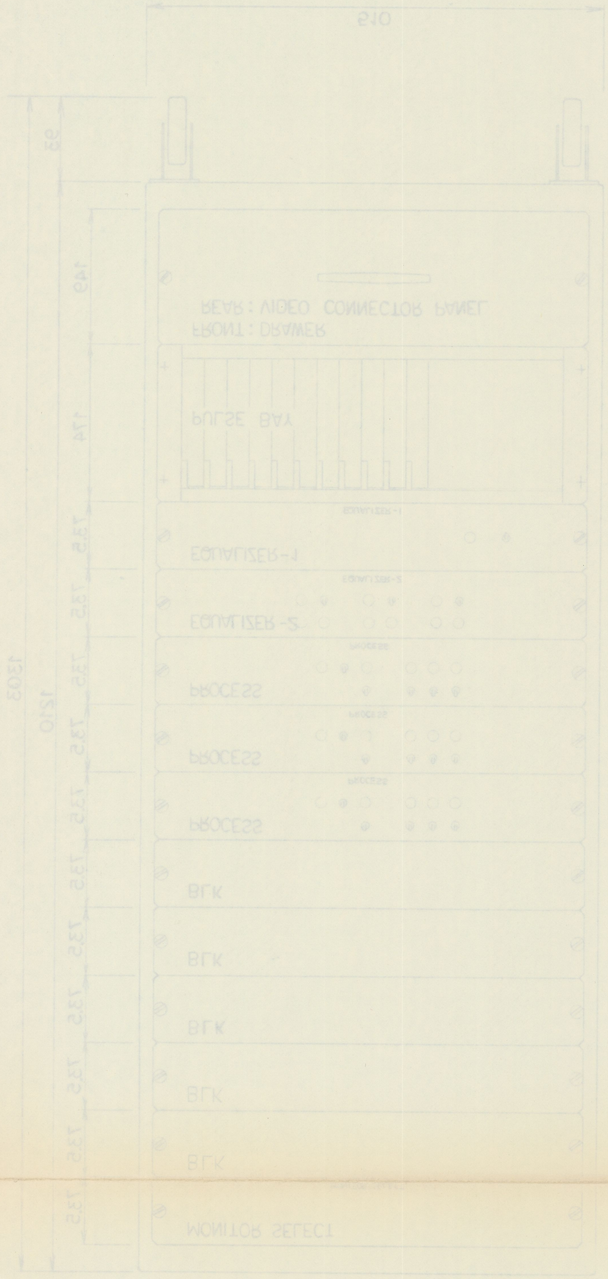
材料 MATERIAL		承認 APPROVED BY	水梨 57. 12. 06
処理 FINISH		承認 APPROVED BY	仲川 57. 12. 04
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/5	単位 UNITS mm	製図 DRAWN BY 藤井 57.12.4
			設計 DESIGNED BY 山田 57. 12. 04

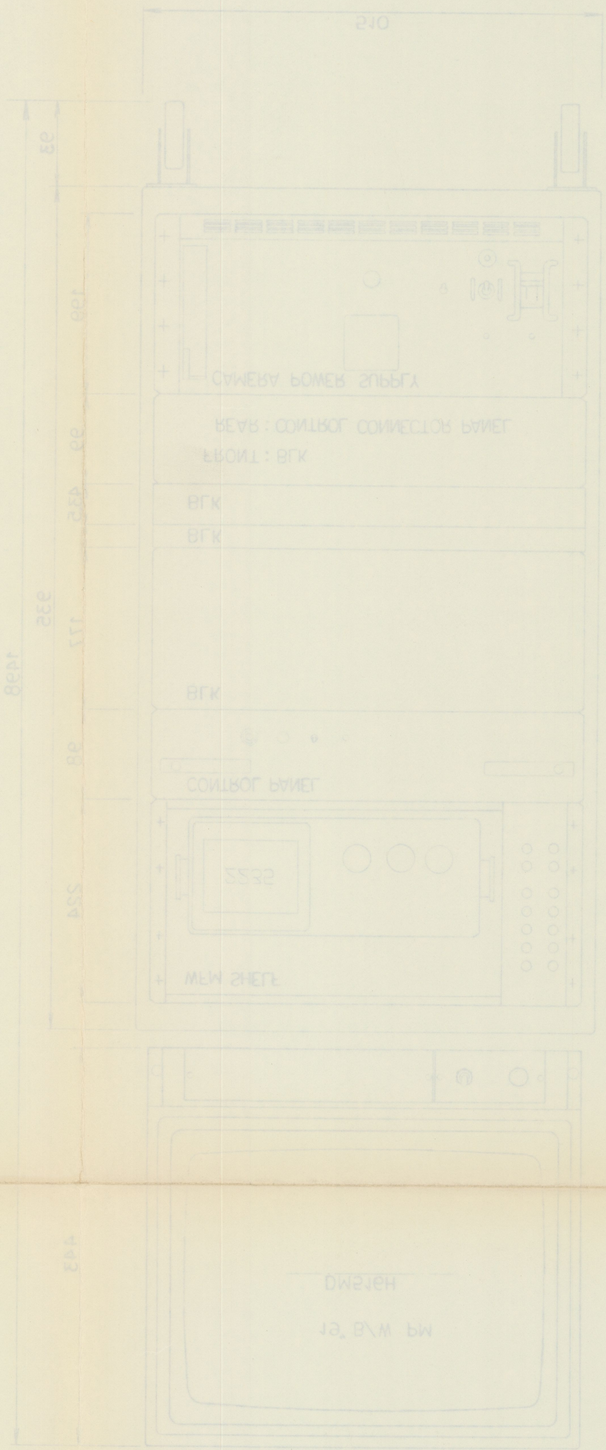
名称 TITLE CCU RACK LAYOUT (/)

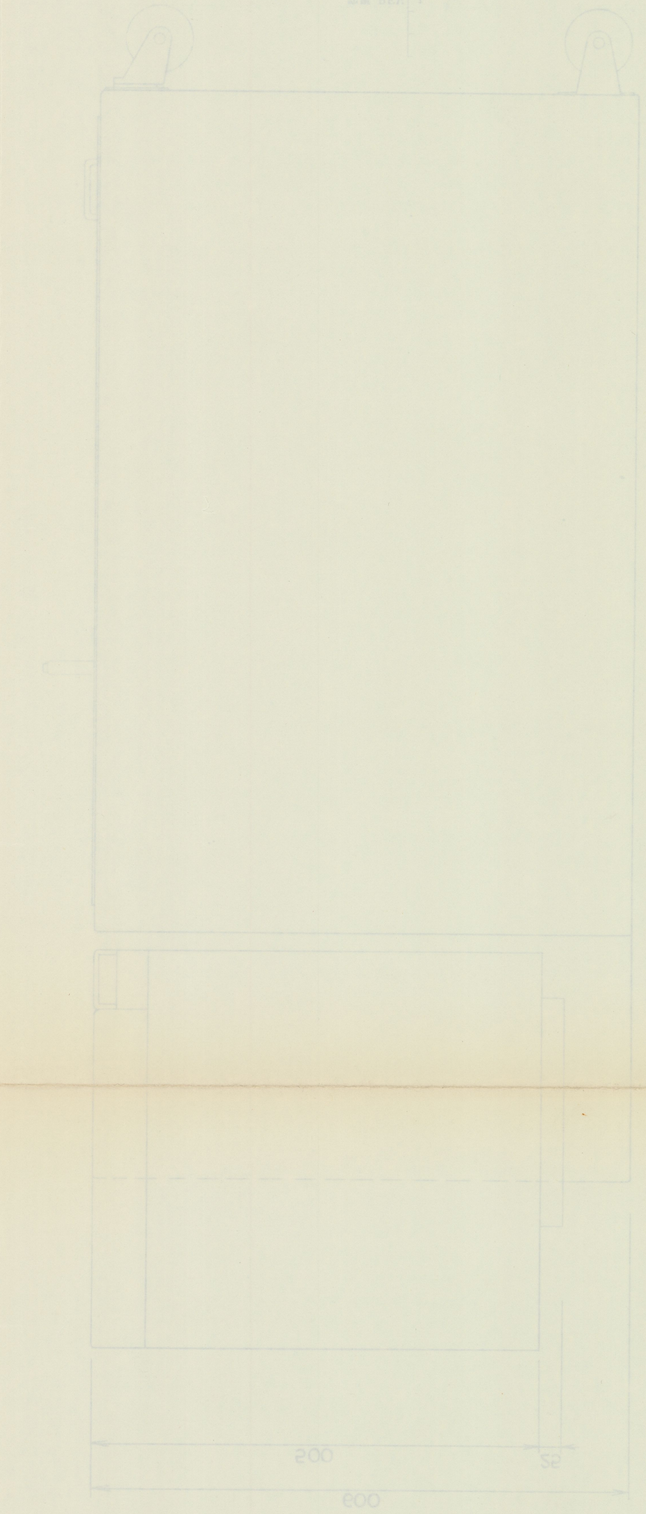
作番 WORK No.

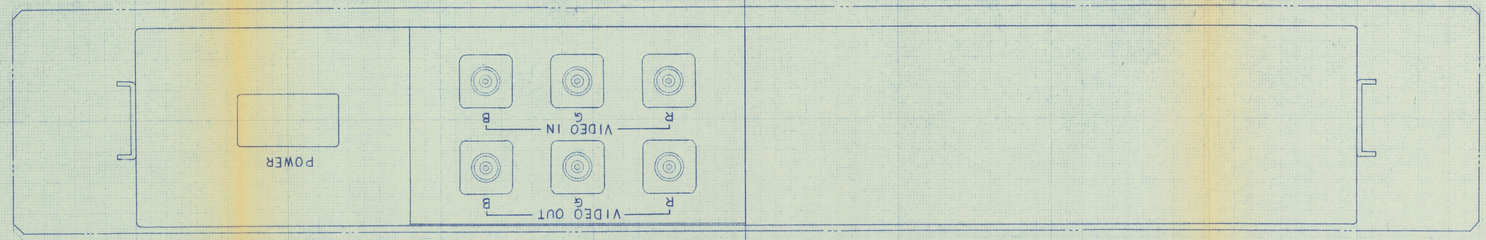
図番 DWG. No. K2 -217451

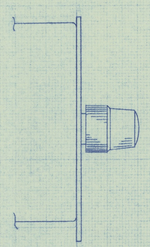
IKEGAMI TSUSHINKI CO., LTD.

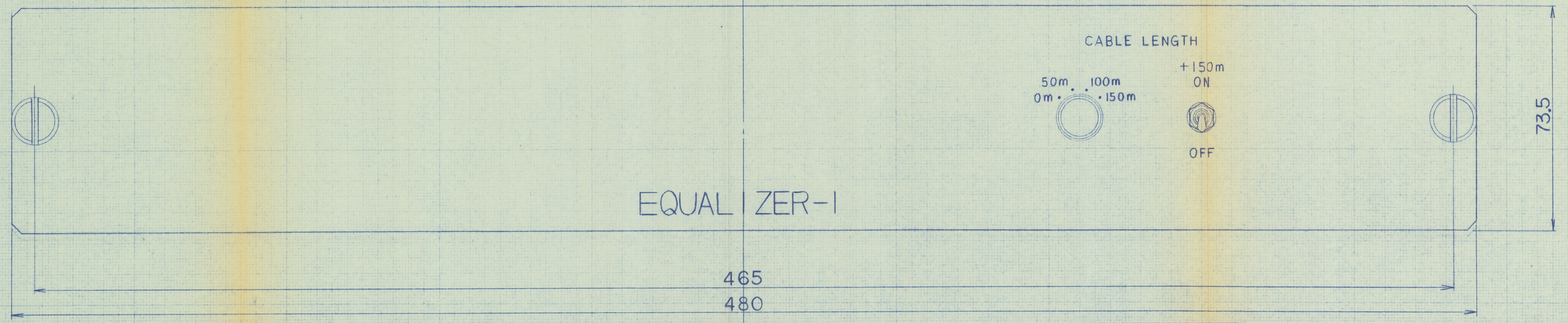

VIDEO RACK
REAR : VIDEO CONNECTOR PANEL
FRONT : DRAWER
BLK
MONITOR SELECT


CONTROL RACK
CAMERA POWER SUPPLY
REAR : CONTROL CONNECTOR PANEL
FRONT : BLK
BLK
BLK
NEW SHEET


CCU RACK
LAYOUT
500
52
600







EQUALIZER-1

変更 REV.	1				
材料 MATERIAL		承認 APPROVED BY	水梁 57.12.06	名称 TITLE	EQUALIZER-1 LAYOUT (/)
処理 FINISH		承認 APPROVED BY	神川 57.12.04		
数量 QUANTITY		検図 CHECKED BY			
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 57.12.4	作番 WORK No.	図番 DWG No. K11-216226
			設計 DESIGNED BY 山田 57.12.04		

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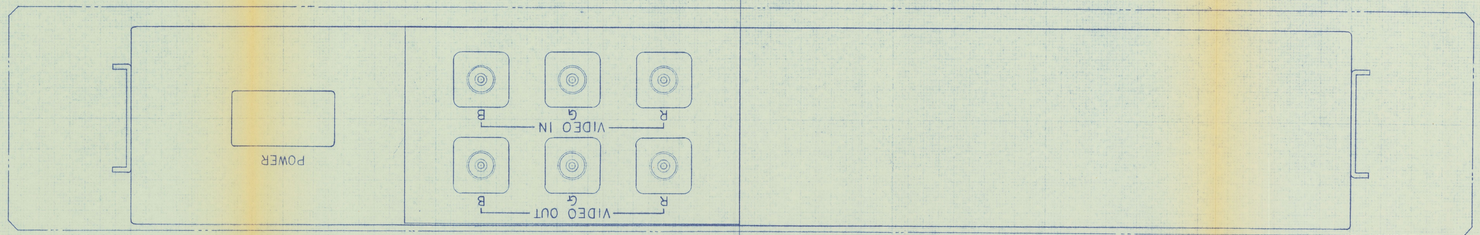
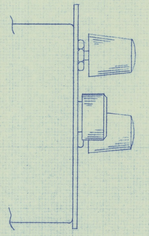
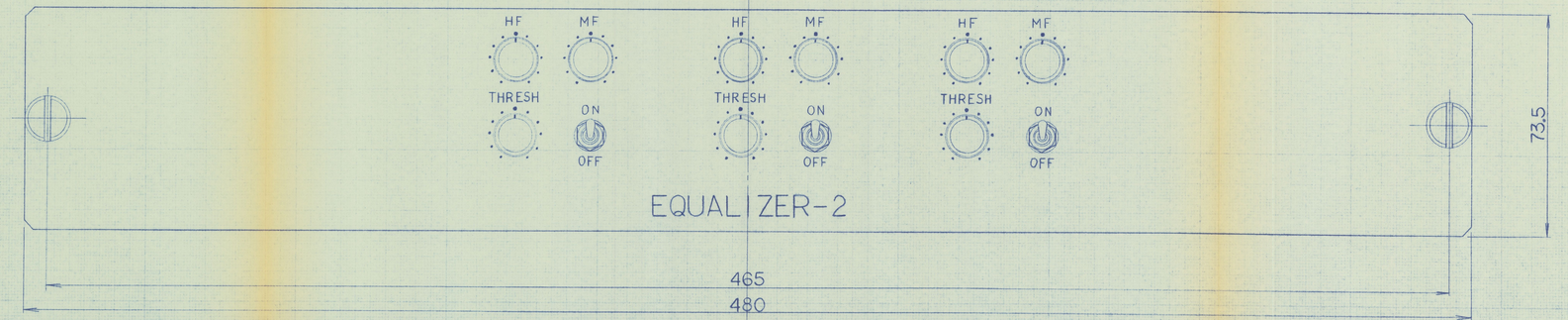
VIDEO IN
VIDEO OUT
POWER
CABLE LENGTH
OFF
EQUALIZER-1
165
160







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処理 FINISH		承認 APPROVED BY	57.12.04
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 57.12.4
			設計 DESIGNED BY 57.12.06

変更 REV 1

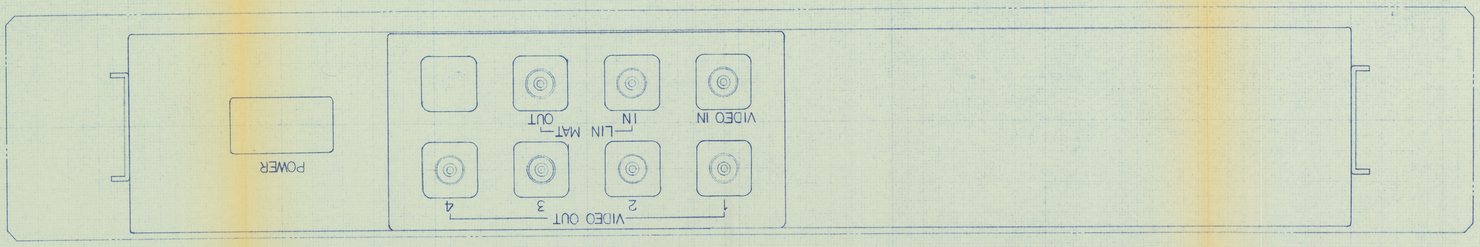
名称 TITLE EQUALIZER-2 LAYOUT (/)

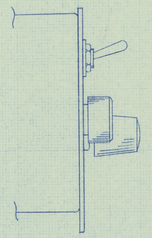
作番 WORK No.

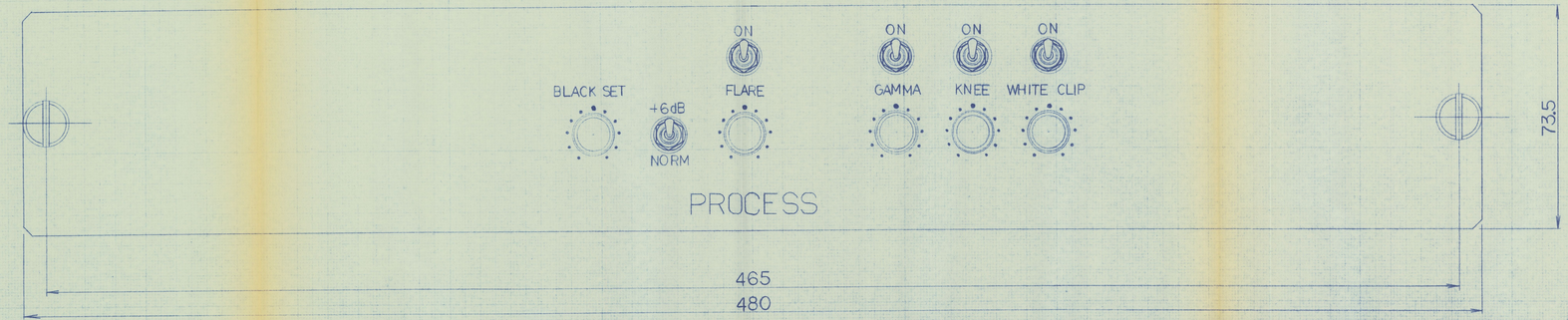
図番 DWG. No. K11-216227

IKEGAMI TSUSHINKI CO., LTD.

VIDEO IN
VIDEO OUT
POWER
HF
MF
THRESH
ON
OFF
EQUAL ZER-2
272
495
480







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仕上 FINISH		承認 APPROVED BY	昭和57.12.04
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 57.12.4
			設計 DESIGNED BY 昭和57.12.04

変更 REV 1

名称 TITLE PROCESS LAYOUT (/)

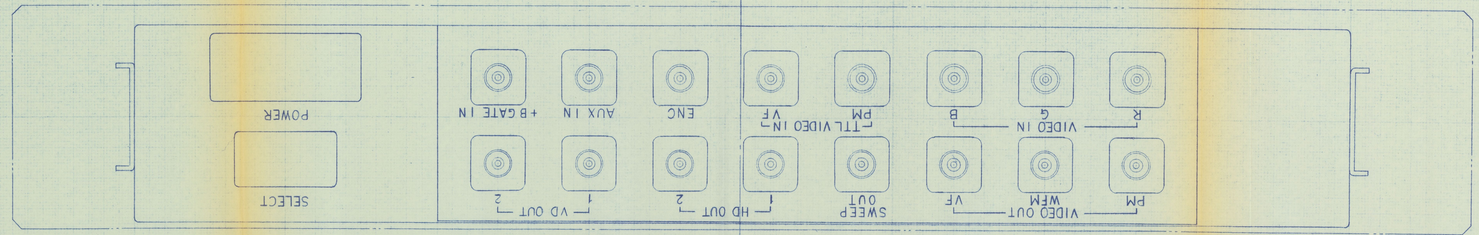
作番 WORK No.

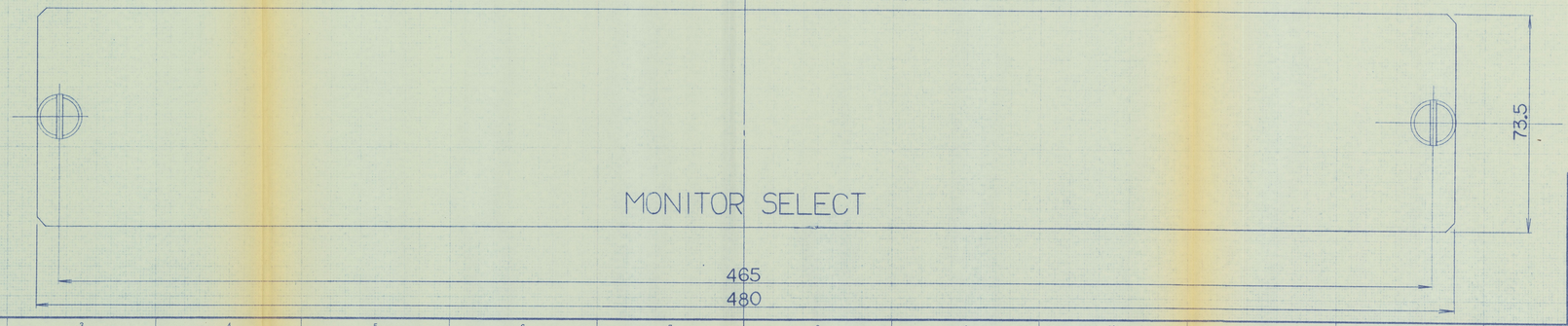
図番 DWG. No. K11-216228

IKEGAMI TSUSHINKI CO., LTD.

LAYOUT

K11-21622B



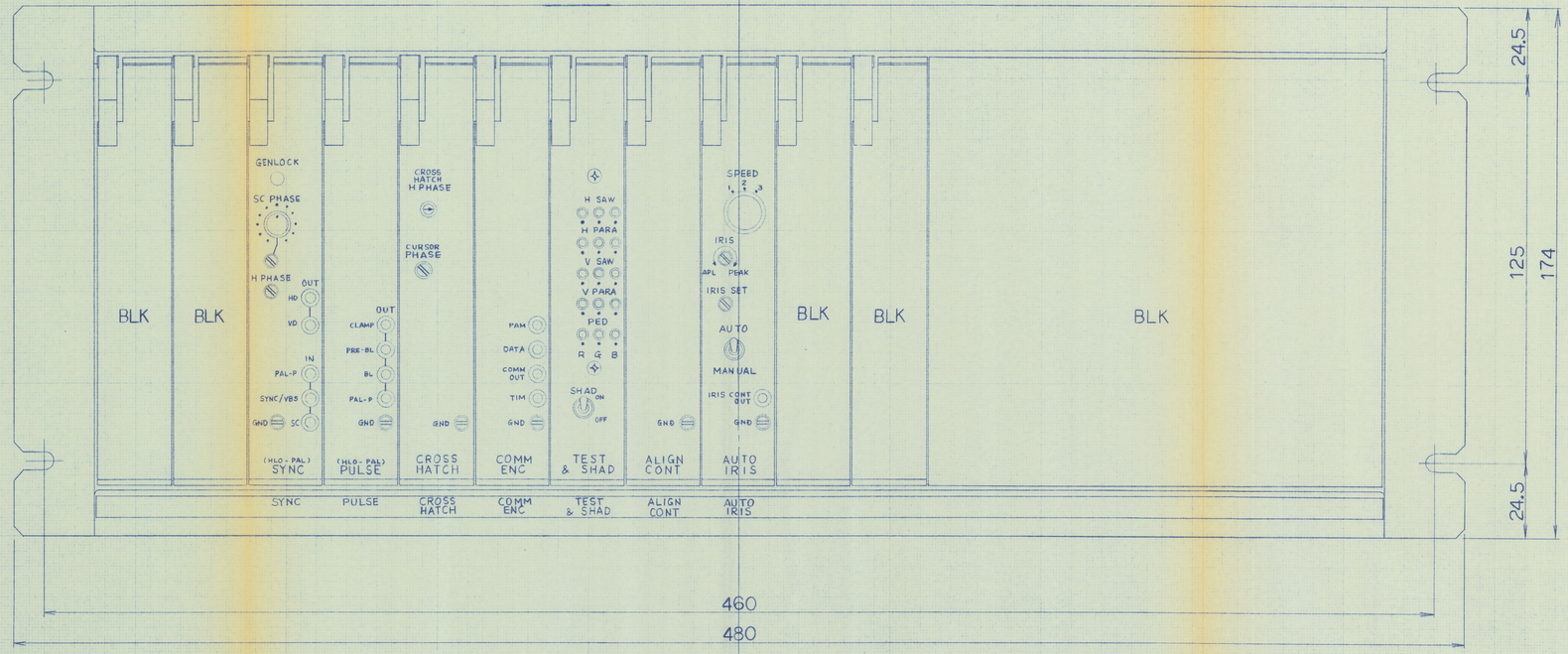


MONITOR SELECT

材料 MATERIAL		承認 APPROVED BY		変更 REV	1
処理 FINISH		承認 APPROVED BY			
数量 QUANTITY		検図 CHECKED BY		名称 TITLE	MONITOR SELECT LAYOUT (/)
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY	作番 WORK No.	図番 DWG. No. K11-216231
			設計 DESIGNED BY		

IKEGAMI TSUSHINKI CO., LTD.

R
G
B
VIDEO IN
TTL VIDEO IN
SYNC
AUX IN
+B GATE IN
POWER
SELECT
VIDEO OUT
SWEEP
HD OUT
VD OUT
MONITOR SELECT
LAYOUT
K11-216231



材料 MATERIAL		承認 APPROVED BY	変更 REV 1
処理 FINISH		承認 APPROVED BY	神川 57.12.04
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 57.12.4
			設計 DESIGNED BY 57.12.04

名称 TITLE: PULSE BAY (FRONT) LAYOUT

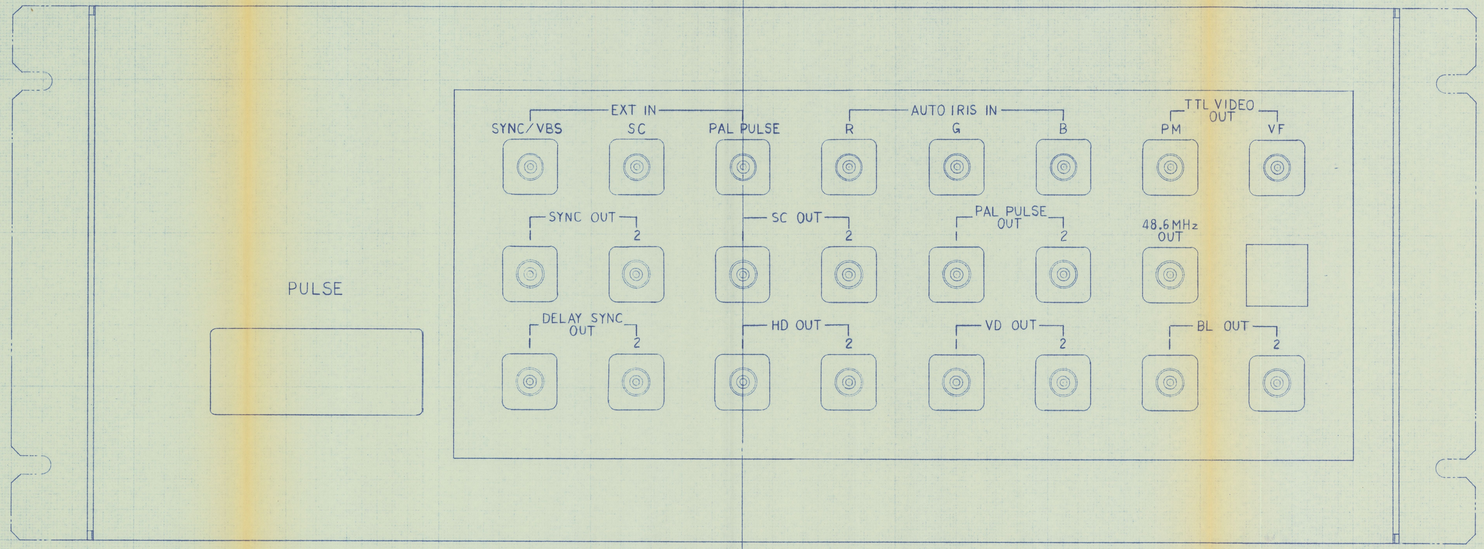
作番 WORK No.

図番 DWG. No. K11-216232

IKEGAMI TSUSHINKI CO., LTD.

PULSE BAY (FRONT) LAYOUT

K11-216232



変更 REV	1		
材料 MATERIAL		承認 APPROVED BY	57.12.03
処理 FINISH		承認 APPROVED BY	57.12.14
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 57.12.9
			設計 DESIGNED BY 57.12.04

名称 TITLE: PULSE BAY (REAR) LAYOUT (/)

作番 WORK No.

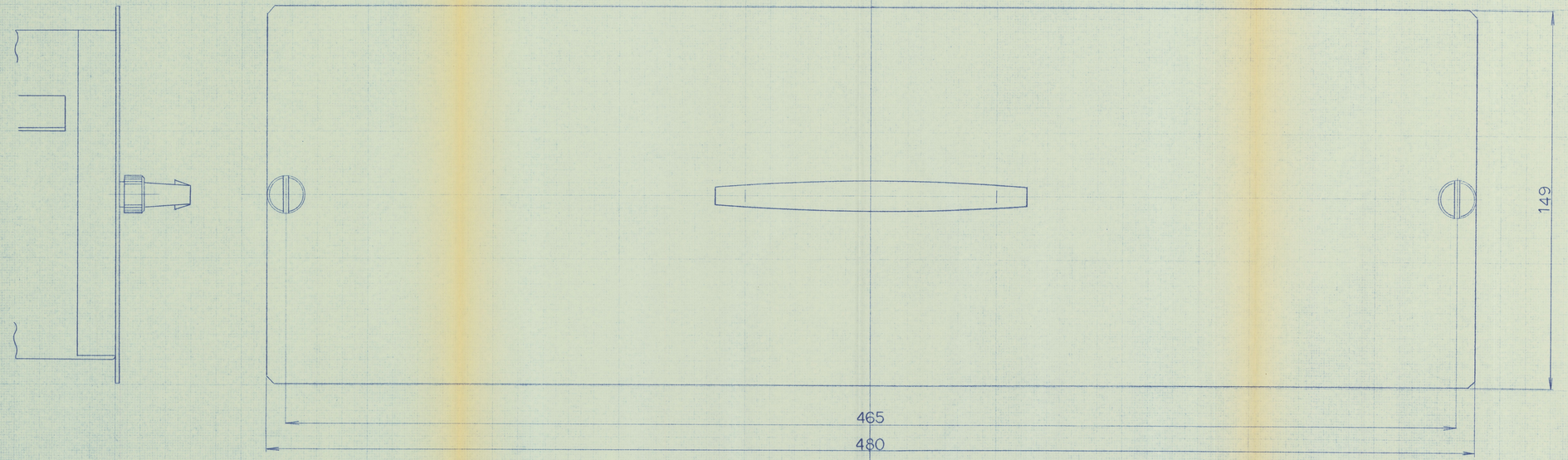
図番 DWG. No. K11-216233

IKEGAMI TSUSHINKI CO., LTD.

PULSE BAY (REAR) LAYOUT

K11-216233

© NIPPON TSUSHINKI CO. LTD.



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処理 FINISH		承認 APPROVED BY	神川 57.12.04
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 山田 57.12.04
			設計 DESIGNED BY 山田 57.12.04

変更 REV 1

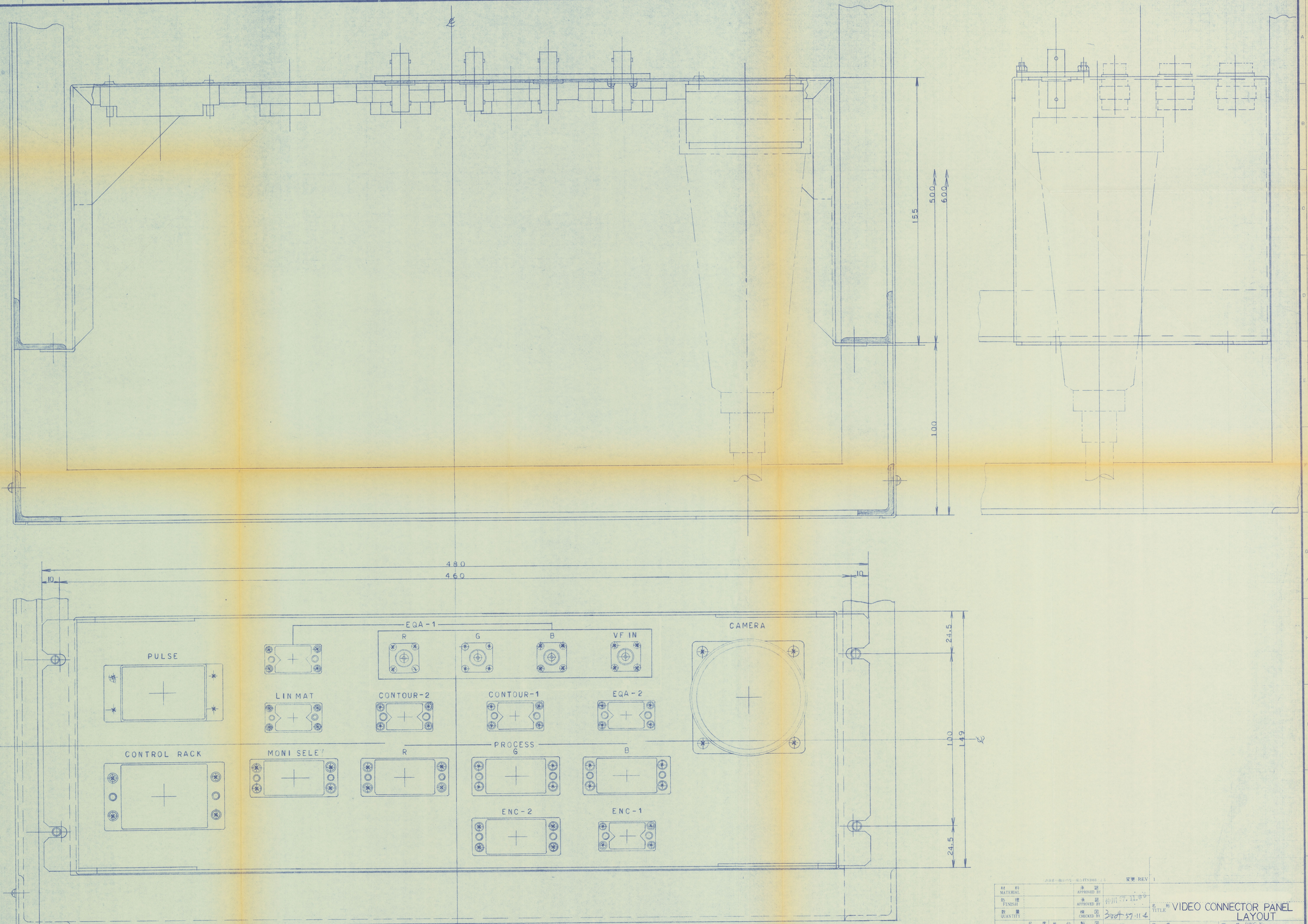
名称 TITLE DRAWER LAYOUT(/)

作番 WORK No.

図番 DWG. No. K11-216234

IKEGAMI TSUSHINKI CO.,LTD.

© IKEGAMI TSUSHINKI CO.,LTD



材料 MATERIAL		承認 APPROVED BY	
処理 FINISH		承認 APPROVED BY	仲川 57.11.09
数量 QUANTITY		検図 CHECKED BY	3304 57.11.4
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 大明 57.11.4.
			設計 DESIGNED BY 大明 57.11.4.

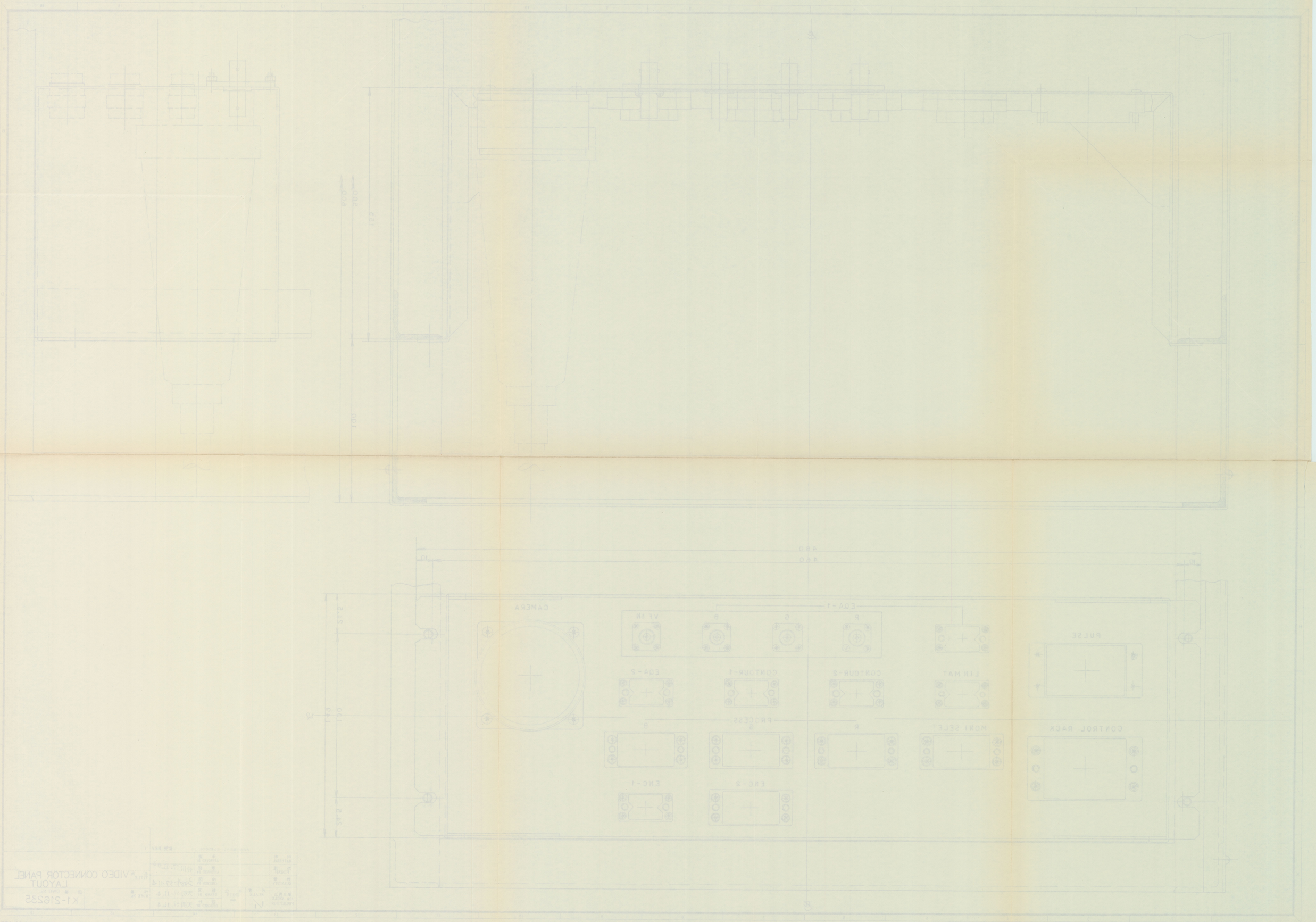
変更 REV 1

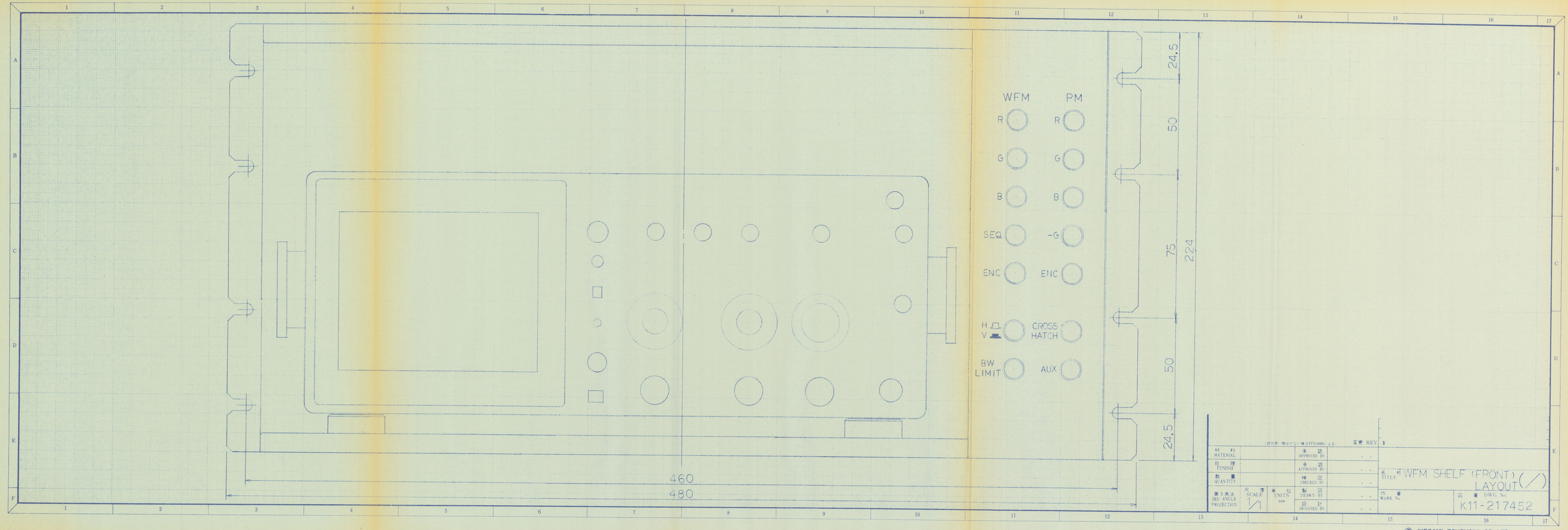
名称 TITLE VIDEO CONNECTOR PANEL LAYOUT

作番 WORK No.

図番 DWG. No. K1-216235

IKEGAMI TSUSHINKI CO., LTD.


CAMERA
VF IN
B
G
R
EQA-1
EQA-2
CONTOUR-1
CONTOUR-2
LIN MAT
PROCESS
B
R
MONI SELECT
ENC-1
ENC-2
PULSE
CONTROL RACK
VIDEO CONNECTOR PANEL LAYOUT
K1-21623S



材料 MATERIAL		承認 APPROVED BY	
仕上 FINISH		承認 APPROVED BY	
数量 QUANTITY		検図 CHECKED BY	
第三角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY
			設計 DESIGNED BY

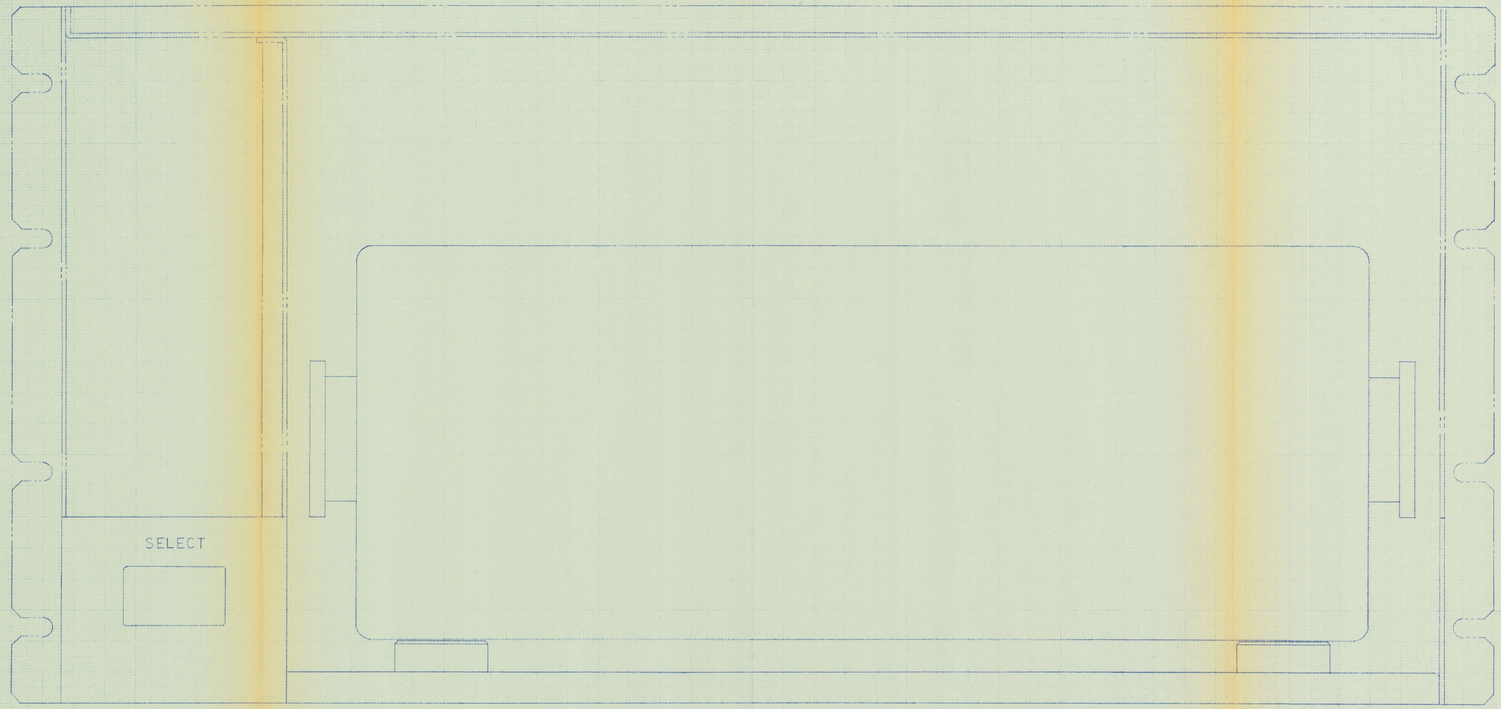
REV 1

TITLE WFM SHELF (FRONT) LAYOUT (/)

WORK No.

DWG. No. K11-217452

IKEGAMI TSUSHINKI CO., LTD.



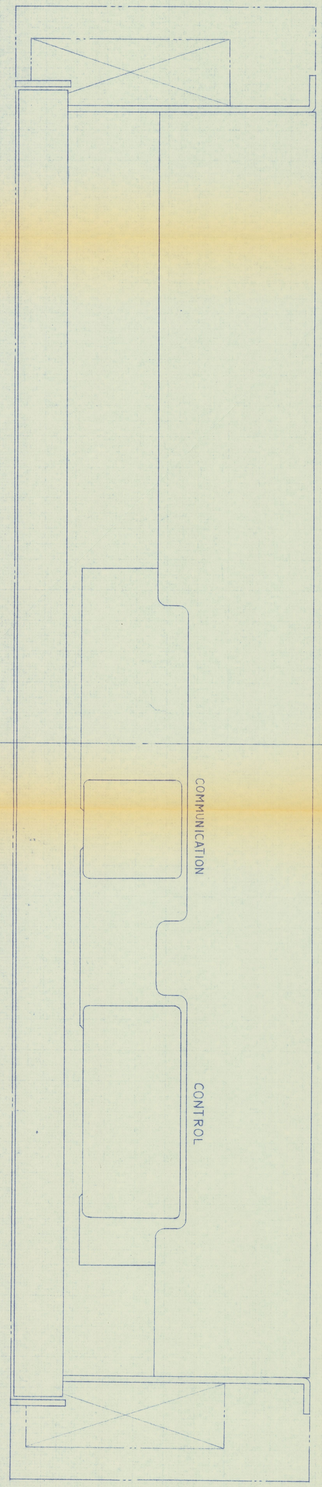
材 料 MATERIAL		承 認 APPROVED BY		変更 REV	1
仕 様 FINISH		承 認 APPROVED BY		名 称 TITLE	WFM SHELF (REAR) LAYOUT (/)
数 量 QUANTITY		検 図 CHECKED BY			
第3角法 3RD ANGLE PROJECTION	尺 度 SCALE 1/1 単 位 UNITS mm	製 図 DRAWN BY		作 番 WORK No.	図 番 DWG. No. K11-217453
		設 計 DESIGNED BY			

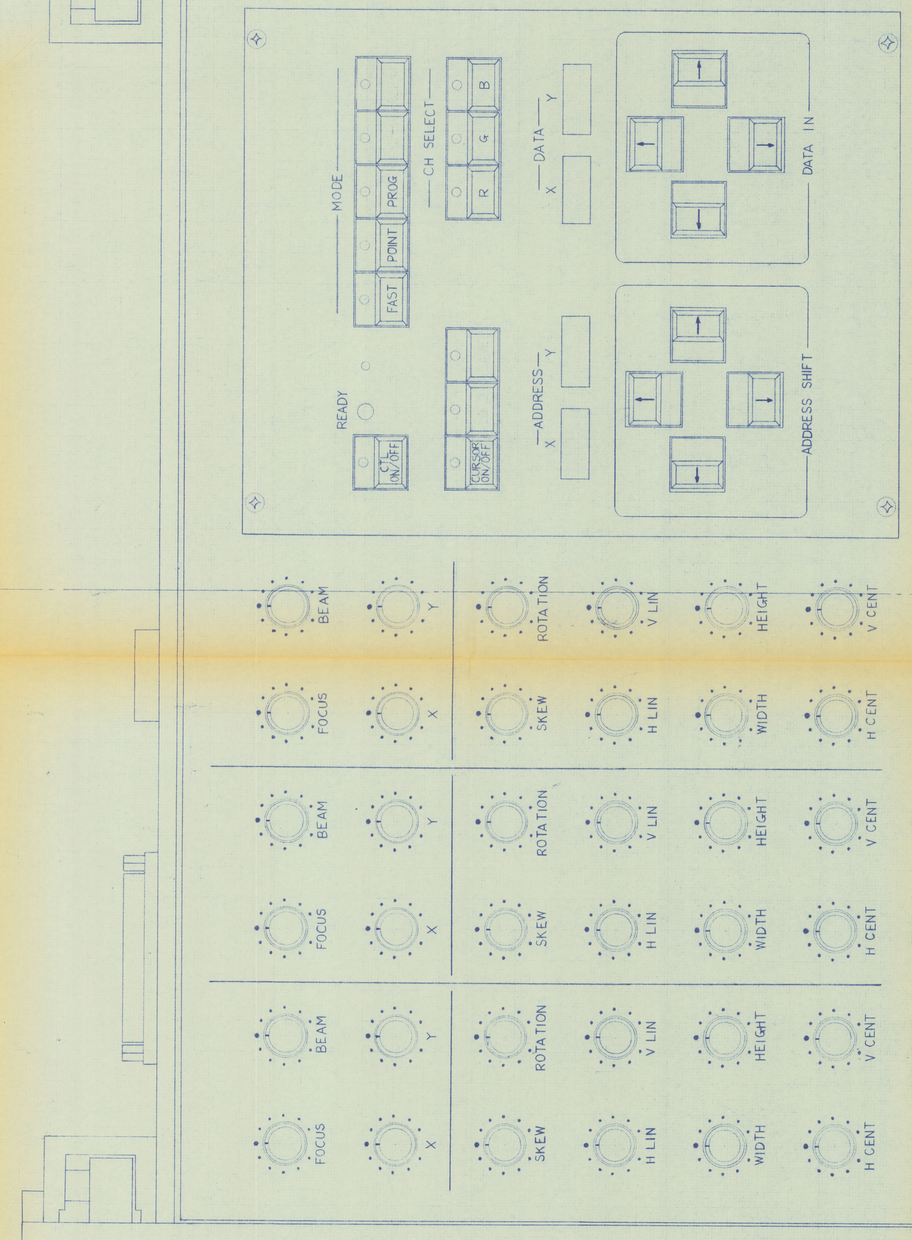
IKEGAMI TSUSHINKI CO., LTD.

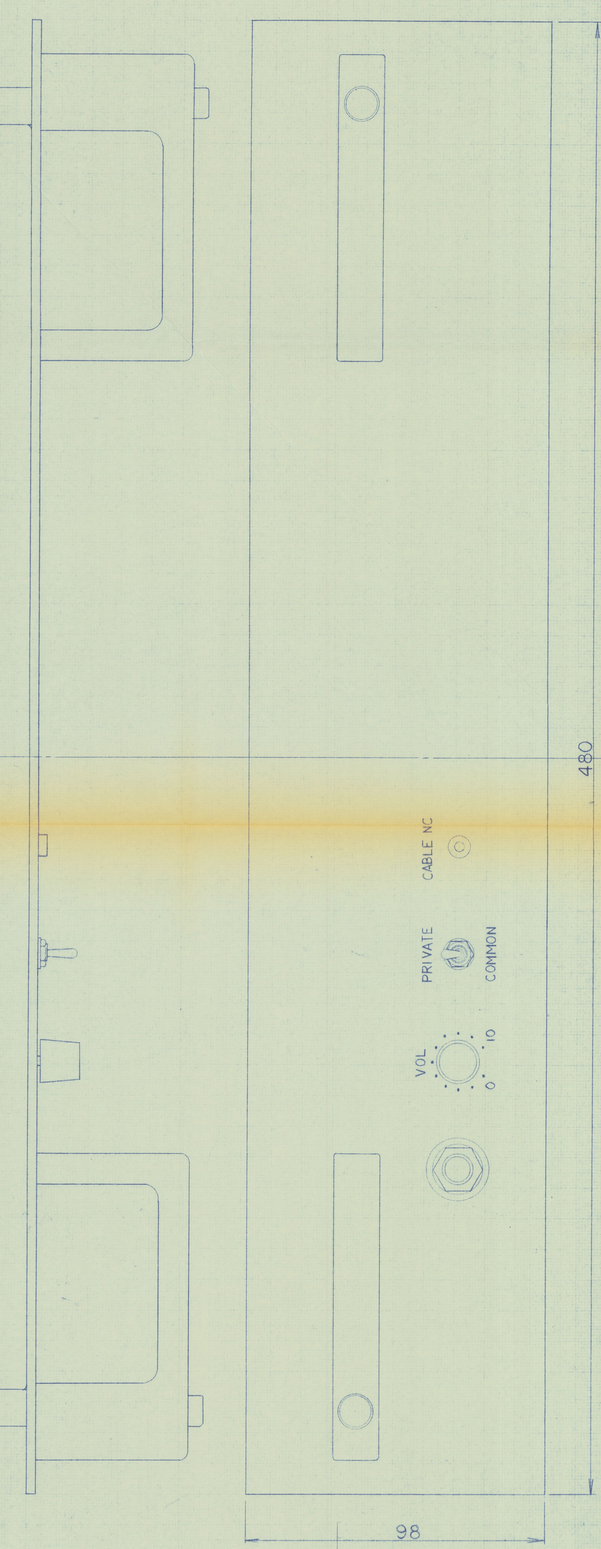
WFM SHELF (REAR)
LAYOUT

K11-27452

IKEGAMI TSUSHINKI CO.,LTD.





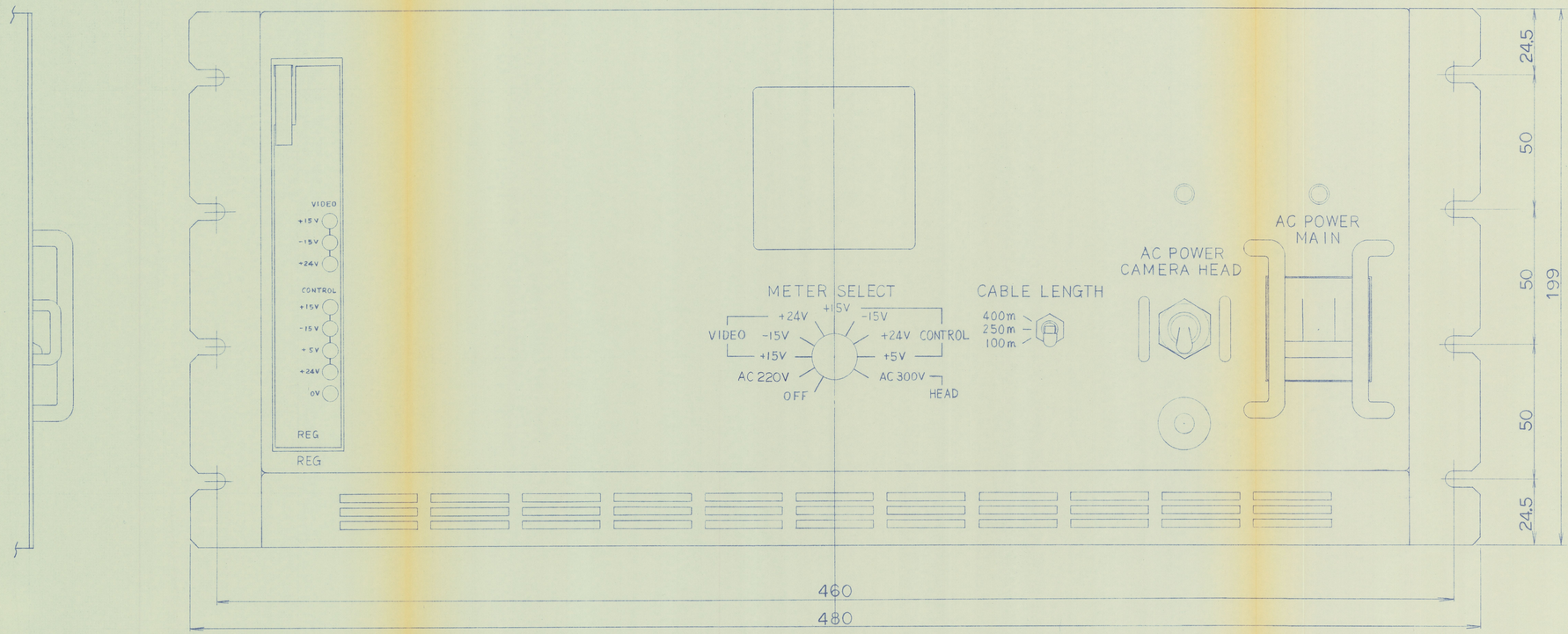


材料 MATERIAL		承認 APPROVED BY	池袋 57.12.08		
処理 FINISH		承認 APPROVED BY	中川 57.12.04		
数量 QUANTITY		検図 CHECKED BY			
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY	芳井 57.12.4	作番 WORK No.
			設計 DESIGNED BY	山田 57.12.04	図番 DWG. No. K1-216238

変更 REV 1

名称 TITLE CONTROL PANEL LAYOUT (/)

IKEGAMI TSUSHINKI CO., LTD.



材料 MATERIAL		承認 APPROVED BY	
仕様 FINISH		承認 APPROVED BY	
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	SCALE 1/1	製図 DRAWN BY	57.12.4
	UNITS mm	設計 DESIGNED BY	

変更 REV. 1

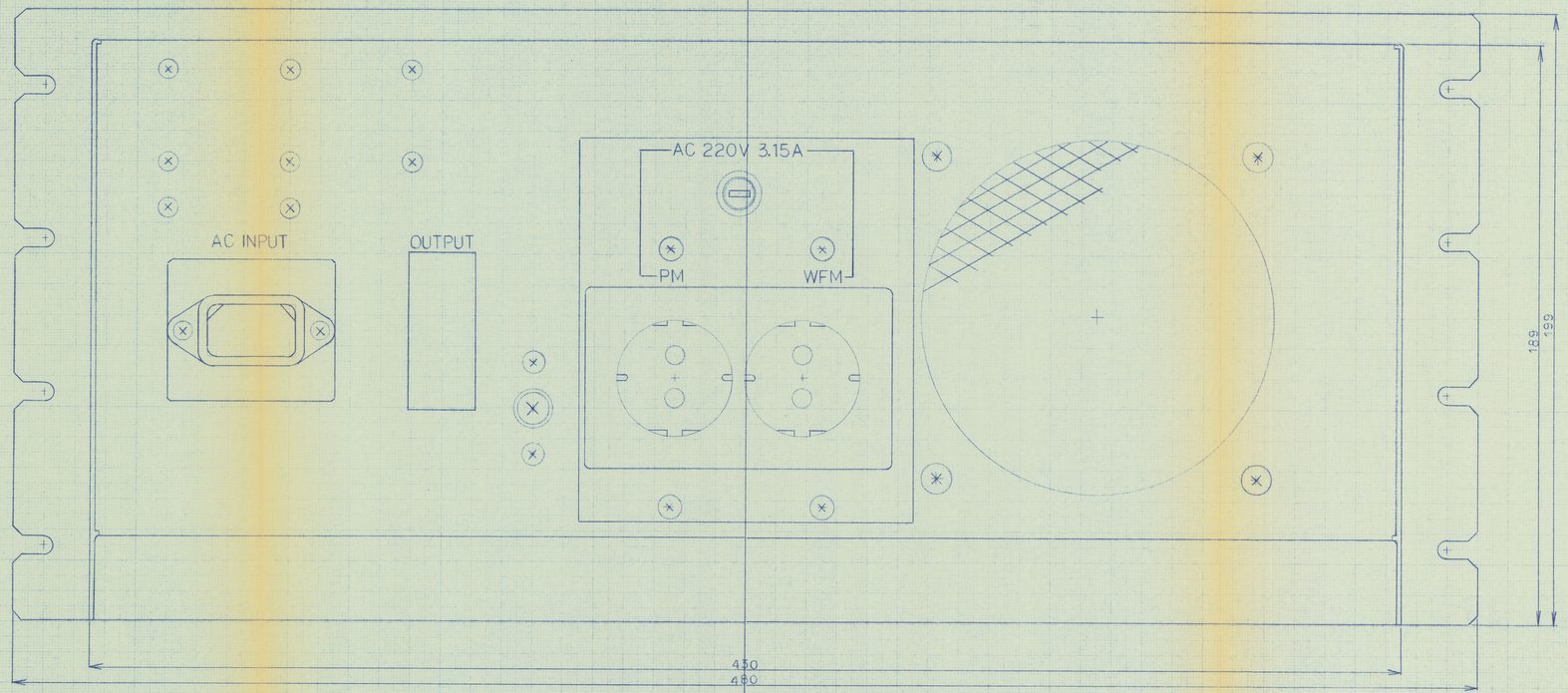
TITLE *CAMERA POWER SUPPLY (FRONT) LAYOUT

作業番号 WORK No.

図番 DWG. No. K11-217454

© IKEGAMI TSUSHINKI CO. LTD.

AC POWER
MAIN
AC POWER
CAMERA HEAD
CABLE LENGTH
400m
250m
100m
METER SELECT
+15V
+12V
VIDEO
-15V
+12V CONTROL
+5V
AC 220V
AC 300V
OFF
HEAD
460
460
50
50
50
100



材料 MATERIAL		承認 APPROVED BY	. .
仕上 FINISH		承認 APPROVED BY	谷川 58.10.31
数量 QUANTITY		検図 CHECKED BY	. .
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 山田 58.10.31
			設計 DESIGNED BY 山田 58.10.31

一般公差 指示のない場合JIS B0405による　変更 REV 1

名称 TITLE CAMERA POWER SUPPLY (REAR) LAYOUT (/)

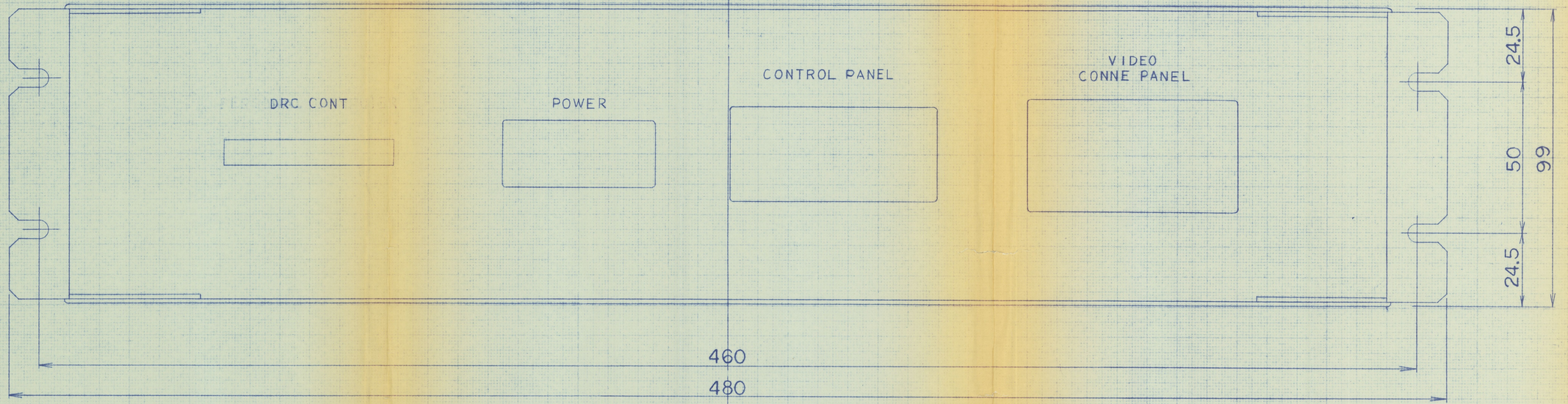
作番 WORK No.

図番 DWG. No. K11-217455

IKEGAMI TSUSHINKI CO., LTD.

AC 220V 3.15A
WT-M
PM
OUTPUT
AC INPUT
420
410
380

| | | |



材料 MATERIAL		承認 APPROVED BY	57.12.06
処理 FINISH		承認 APPROVED BY	57.12.04
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE 1/1	単位 UNITS mm	製図 DRAWN BY 57.12.4
			設計 DESIGNED BY 57.12.04

(許容差…指示のない場合JIS B0401による) 変更 REV 1

名称 TITLE CONTROL CONNECTOR PANEL LAYOUT

作番 WORK No.

図番 DWG. No. K21-216241

IKEGAMI TSUSHINKI CO.,LTD.

VIDEO
CONNE PANEL
CONTROL PANEL
POWER
DRC CONT
460
480
54.5
50
54.5
66

MODEL DM516H B/W MONITOR SPECIFICATIONS

1. General

This specifications provides about High Definition B/W monitor which is in use HDTV.

2. Rating

2-1 Input signal

1) Input form

Number of scanning line	: 1,125
Number of frame	: 30
Line interlace ratio	: 2:1
H. Scanning frequency	: 33.75KHz
V. Scanning frequency	: 60Hz

2) Kinds of signal

a) Video	Video signal	2 inputs
b) SYNC	HD, VD	1 input

3) Signal level

a) Video	R, G, B	0.7Vp-p (White signal positive)
b) Sync	HD, VD	4Vp-p (negative)

4) Impedance: 75 ohm or High-impedance bridge connection

5) Connector: BNC type

2-2 Output level: 20Vp-p (CRT drive voltage/and Video only)

2-3 CRT: 19-inch B/W CRT

2-4 Frame size: W 380mm x H 228mm
Aspect ratio : 5:3

2-5 Power requirement: AC 220V, 50/60Hz

2-6 Power consumption: Less than 180VA

2-7 Surrounding Condition

1) Temperature : 0°C ~ 40°C
2) Humidity : less than 90% (Non dew)
3) Set up : Indoor
4) Use : Continuity

MODEL DM519H B/W MONITOR SPECIFICATIONS

1. General

This specifications provides about High Definition B/W monitor which is in use HDTV.

2. Rating

2-1 Input signal

1) Input form

Number of scanning line : 1,125
Number of frame : 30
Line interlace ratio : 2:1
H. Scanning frequency : 33.75KHz
V. Scanning frequency : 60Hz

2) Kinds of signal

a) Video — Video signal — 2 inputs
b) SYNC — HD, VD — 1 input

3) Signal level

a) Video — R, G, B — 0.7Vp-p (White signal positive)
b) Sync — HD, VD — 4Vp-p (negative)

4) Impedance — 75 ohm or High-impedance bridge connection

5) Connector — BNC type

2-2 Output level — 20Vp-p (CRT drive voltage/and Video only)

2-3 CRT — 19-inch B/W CRT

2-4 Frame size — W 380mm x H 228mm
Aspect ratio : 5:3

2-5 Power requirement — AC 220V, 50/60Hz

2-6 Power consumption — Less than 180VA

2-7 Surrounding Condition

1) Temperature : 0°C ~ 40°C
2) Humidity : less than 90% (Non dew)
3) Set up : Indoor
4) Use : Continuity

2-8 Construction

1) Dimenstions : (W) 482mm x (H) 443mm x (D) 500mm

2) Weight : 25kg approx

3. Abilities

3-1 Video signal

1) Frequency Charactaristic : 60Hz ∽ 30MHz $^{+1}_{-3}$dB

over 30MHz drooping characteristic

(* From video signal input terminal to R,G,B CRT drive output terminal, 500KHz standard, to rated output)

2) Wave distortion : Sag (to 60Hz square signal input)

Less than 5%

Over shoot (to symmetry square signal input of line frequency)

Less than 10%

3) Noise : (Terminated Video input terminal in 75 ohms, to rated output on CRT drive output terminal)

synchronizm : over -40dB

random : over -50dB

hum : over -50dB

(without retrace line time)

3-2 Defrection & High-Voltage

1) Synchronous stability : Act stable in sphere which has ±6dB of rated value.

2) Defrection amplitude : Be possible adjust to rated frame size in aspect ratio 5:3.

3) Defrection distortion : less than ±1% in height of picture frame (both defrection linearity and raster distortion)

2-8 Construction

1) Dimensions : (W) 482mm x (H) 443mm x (D) 500mm

2) Weight : 25kg approx

3. Abilities

3-1 Video signal

1) Frequency Characteristic : 60Hz ~ 30MHz $^{+1}_{-3}$dB

over 30MHz drooping characteristic

(* From video signal input terminal to R,G,B CRT drive

output terminal, 500KHz standard, to rated output)

2) Wave distortion : Sag (to 60Hz square signal input)

Less than 5%

Over shoot (to symmetry square signal input

of line frequency)

Less than 10%

3) Noise : (Terminated Video input terminal in 75 ohms,

to rated output on CRT drive output terminal)

synchronism : over -40dB

random : over -50dB

hum : over -50dB

(without retrace line time)

3-2 Deflection & High-Voltage

1) Synchronous stability : Act stable in sphere which has ±6dB

of rated value.

2) Deflection amplitude : Be possible adjust to rated frame size

in aspect ratio 5:3.

3) Deflection distortion : less than ±1% in height of picture frame

(both deflection linearity and raster distortion)

4) Retrace time : Horizontal less than 17%
Vertical less than 3%

5) Hum shake : less than 0.2mm

6) High Voltage

a) Generating voltage : 18KV

b) Regulation : less than ±3% (to the change 0 ~ 250μA, 100μA standard)

3-3 General

1) Resolution : center H : more than 1000 TV lines
V : more than 750 TV lines
corner H : more than 800 TV lines
V : more than 750 TV lines

2) Power voltage fluctuation : Act stable incase of change the rated value of input voltage to ±10%

4. Drawings

4-1 Block diagram : Fig. 1

4-2 External appearance : Fig. 2

5. Guarantee

5-1 Equipments : In case parts are damaged (without CRT), within a year under Ikegami's responsibility, will repair free of charge. (without be damaged by mistaken handling)

4) Retrace time : Horizontal less than 1%

Vertical less than 3%

5) Hum shake : less than 0.2mm

6) High Voltage

a) Generating voltage : 18KV

b) Regulation : less than ±3% (to the change 0 ~ 250μA, 100μA standard)

3-3 General

1) Resolution : center H : more than 1000 TV lines

V : more than 750 TV lines

corner H : more than 800 TV lines

V : more than 750 TV lines

2) Power voltage fluctuation : Act stable incase of change the rated value of input voltage to ±10%

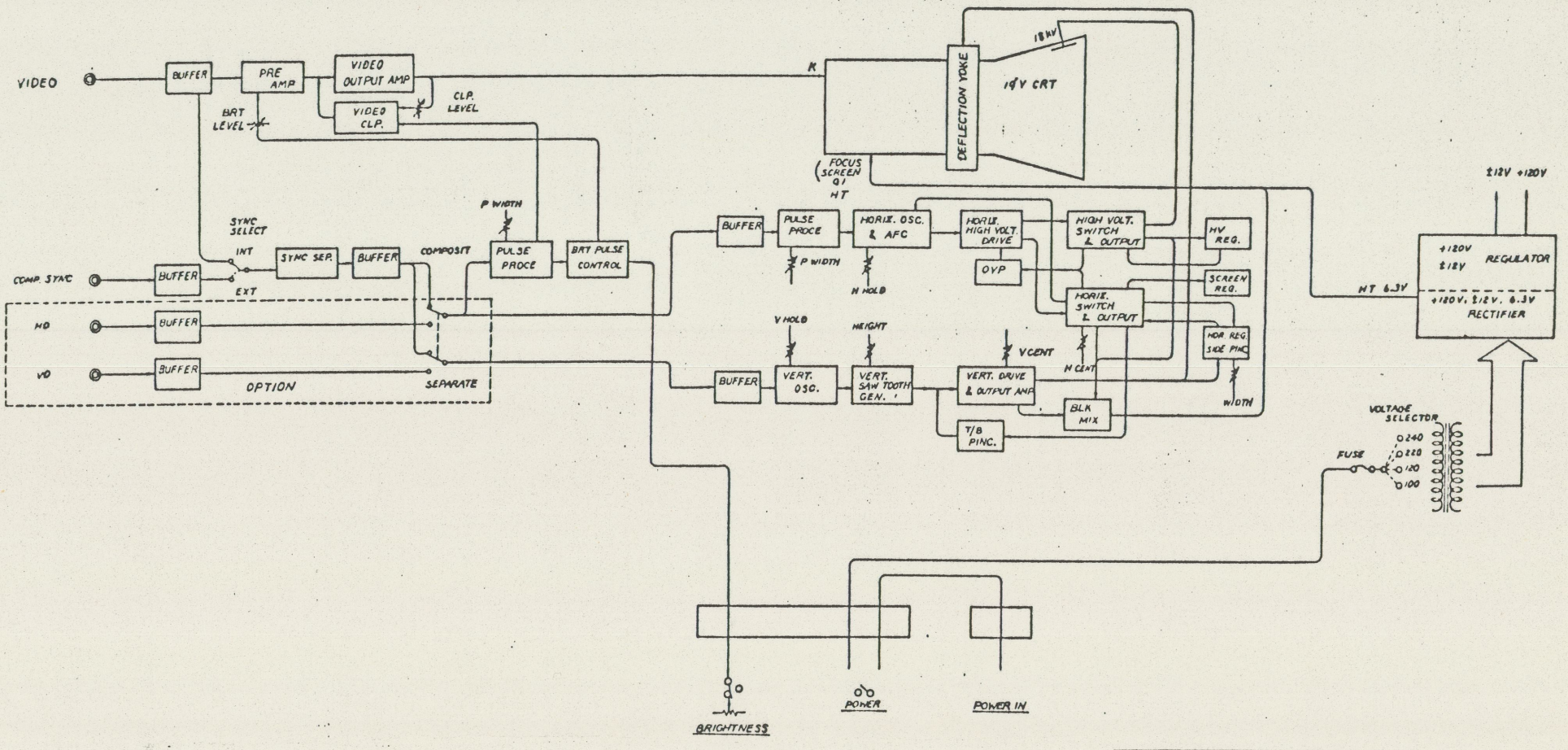
4. Drawings

4-1 Block diagram : Fig. 1

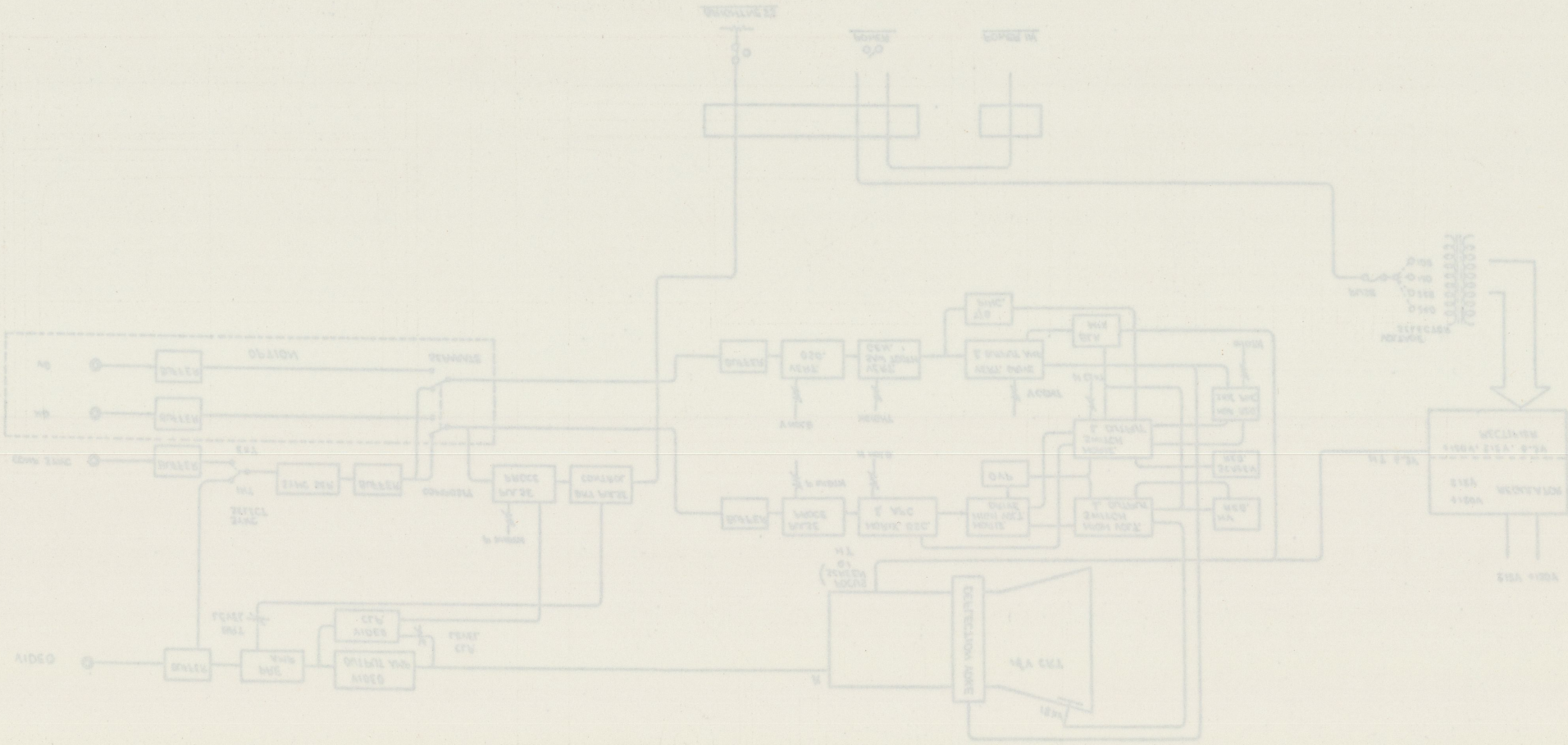
4-2 External appearance : Fig. 2

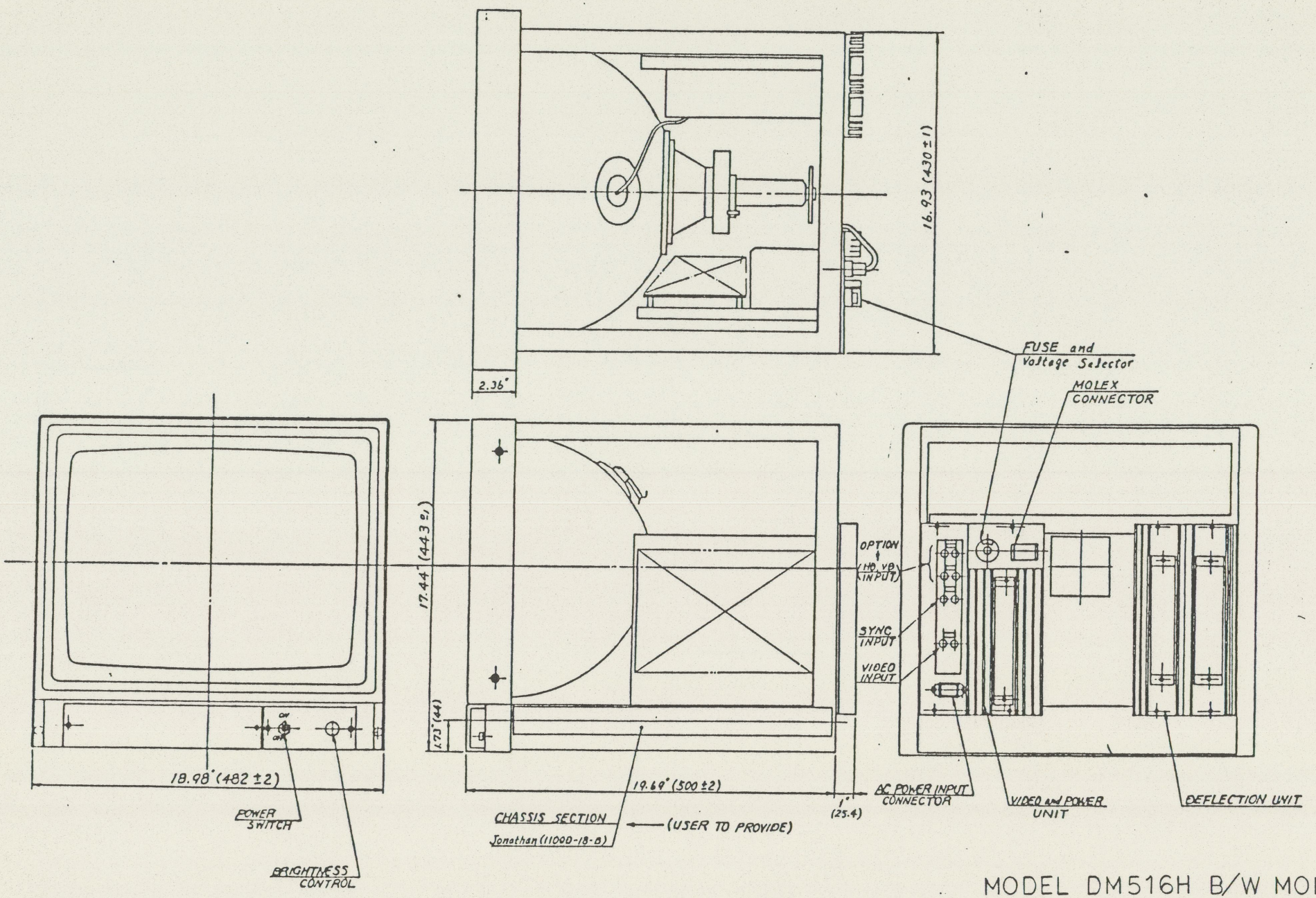
5. Guarantee

5-1 Equipments : In case parts are damaged (without CRT), within a year under Ikegami's responsibility, will repair free of charge. (without be damaged by mistaken handling)



MODEL DM516H B/W MONITOR
BLOCK DIAGRAM
FIG. 1





MODEL DM516H B/W MONITOR
EXTERNAL APPEARANCE
FIG. 2

FIG. 5

EXTERNAL APPEARANCE

MODEL DM15H WALL MOUNTOR

MODEL TM751 HD 30-INCH COLOR MONITOR SPECIFICATIONS

1. General

This specifications provides about High Definition 30-inch color monitor which is in use HDTV.

2. Rating

2-1 Input signal

1) Input form

Number of scanning line	: 1,125
Number of frame	: 30
Line interlace ratio	: 2:1
H. Scanning frequency	: 33.75KHz
V. Scanning frequency	: 60Hz

2) Kinds of signal

a) Video	R, G, B	2 inputs
b) SYNC	SYNC	2 inputs

3) Signal level

a) Video	R, G, B	0.7Vp-p (White signal positive)
b) Sync	SYNC	4Vp-p (negative)

4) Impedance: 75 ohm or High-impedance bridge connection

5) Connector: BNC type

2-2 Output level: 40Vp-p (CRT drive voltage/and Video R-ch only)

2-3 CRT: 30-inch color CRT (delta beam-gun, high-resolution dot shadow mask. mask pitch : 0.34mm)

2-4 Frame size: W 620mm x H 370mm
Aspect ratio : 5:3

2-5 Power requirement: AC 220V, 50/60Hz

2-6 Power consumption: Less than 400VA

2-7 Surrounding Condition

1) Temperature : 0°C ~ 40°C
2) Humidity : less than 90% (Non dew)
3) Set up : Indoor
4) Use : Continuity

MODEL TM751 HD 30-INCH COLOR MONITOR SPECIFICATIONS

1. General

This specifications provides about High Definition 30-inch color monitor which is in use HDTV.

2. Rating

2-1 Input signal

1) Input form

Number of scanning line : 1,125

Number of frame : 30

Line interlace ratio : 2:1

H. Scanning frequency : 33.75KHz

V. Scanning frequency : 60Hz

2) Kinds of signal

a) Video R, G, B 2 inputs

b) SYNC SYNC 2 inputs

3) Signal level

a) Video R, G, B 0.7Vp-p (White signal positive)

b) Sync SYNC 4Vp-p (negative)

4) Impedance 75 ohm or High-impedance bridge connection

5) Connector BNC type

2-2 Output level 40Vp-p (CRT drive voltage/and Video R-ch only)

2-3 CRT 30-inch color CRT (delta beam-gun, high-resolution dot shadow mask. mask pitch : 0.34mm)

2-4 Frame size W 620mm x H 370mm

Aspect ratio : 5:3

2-5 Power requirement AC 220V, 50/60Hz

2-6 Power consumption Less than 400VA

2-7 Surrounding Condition

1) Temperature : 0°C ~ 40°C

2) Humidity : Less than 90% (Non dew)

3) Set up : Indoor

4) Use : Continuity

2-8 Construction

1) Dimensions : (W) 760mm x (H) 560mm x (D) 650mm

2) Weight : 65kg approx

3. Abilities

3-1 Video signal

1) Frequency Charactaristic : 60Hz ∿ 25MHz ±1dB

25MHz ∼ 30MHz $^{+1}_{-3}$dB

over 30MHz drooping characteristic

(* From video signal input terminal to R,G,B CRT drive output terminal, 500KHz standard, to rated output)

2) Wave distortion : Sag (to 60Hz square signal input)

Less than 5%

Over shoot (to synmetry square signal input of line frequency)

Less than 5%

3) Aperture compensation : 25MHz more than 6dB can be vary

(at max. aperture compensater)

(aimed quantity : more than 10dB)

4) Noise : (Terminated Video input terminal in 75 ohms, to rated output on CRT drive output terminal)

synchronizm : over -40dB

random : over -50dB

hum : over -50dB

(without retrace line time)

3-2 Defrection & High-Voltage

1) Synchronous stability : Act stable in sphere which has ±6dB of rated value.

2) Deffection amplitude : Be possible adjust to rated frame size in aspect ratio 5:3.

3) Deffection distortion : less than ±1% in height of picture frame (both deffection linearity and raster distortion)

4) Retrace time : Horizontal less than 17%
Vertical less than 3%

5) Hum shake : less than 0.2mm

6) High Voltage

a) Generating voltage : 28kV ±1KV

b) Regulation : less than ±3% (to the change 0 ~ 600μA, 200μA standard)

7) Convergence : less than 0.5mm all of on picture frame (Expecting value)

3-3 General

1) Resolution : center H : more than 1000 TV lines
V : more than 750 TV lines
corner H : more than 800 TV lines
V : more than 750 TV lines

2) Power voltage fluctuation : Act stable incase of change the rated value of input voltage to ±10%

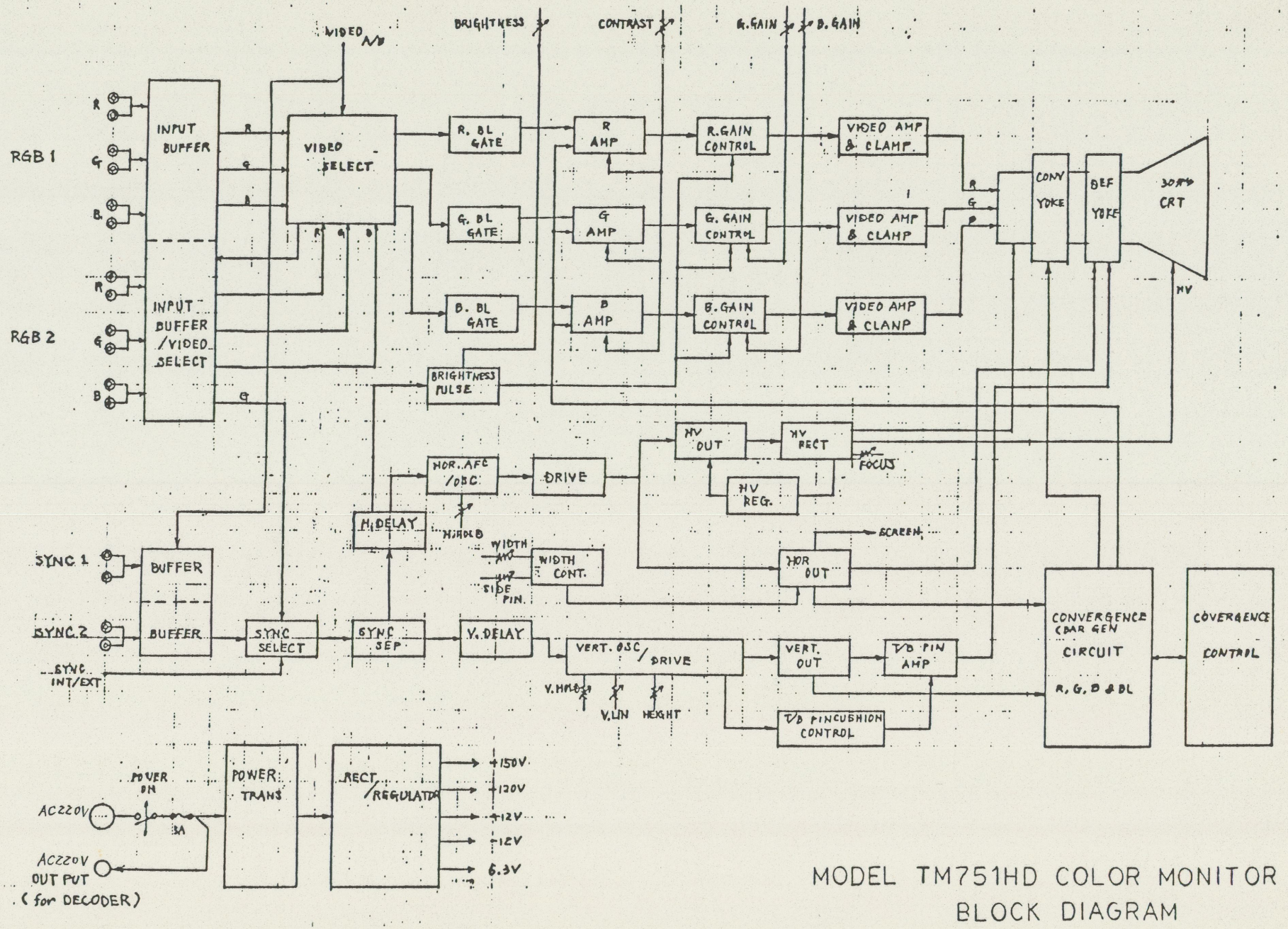
4. Drawings

4-1 Block diagram : Fig. 3

4-2 External appearance : Fig. 4

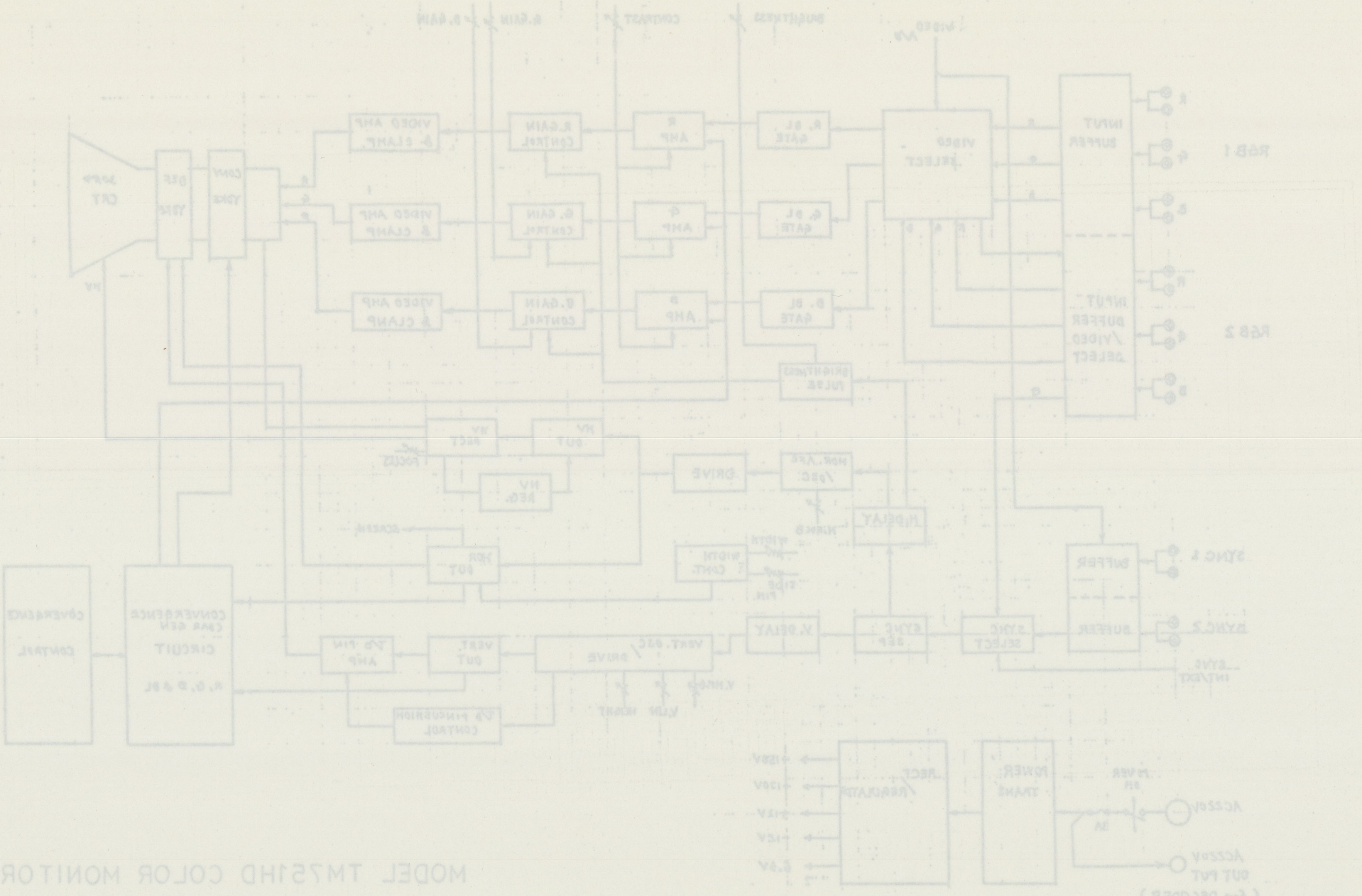
5. Guarantee

5-1 Equipments : In case parts are damaged (without CRT), within a year under Ikegami's responsibility, will repair free of charge. (without be damaged by mistaken handling)

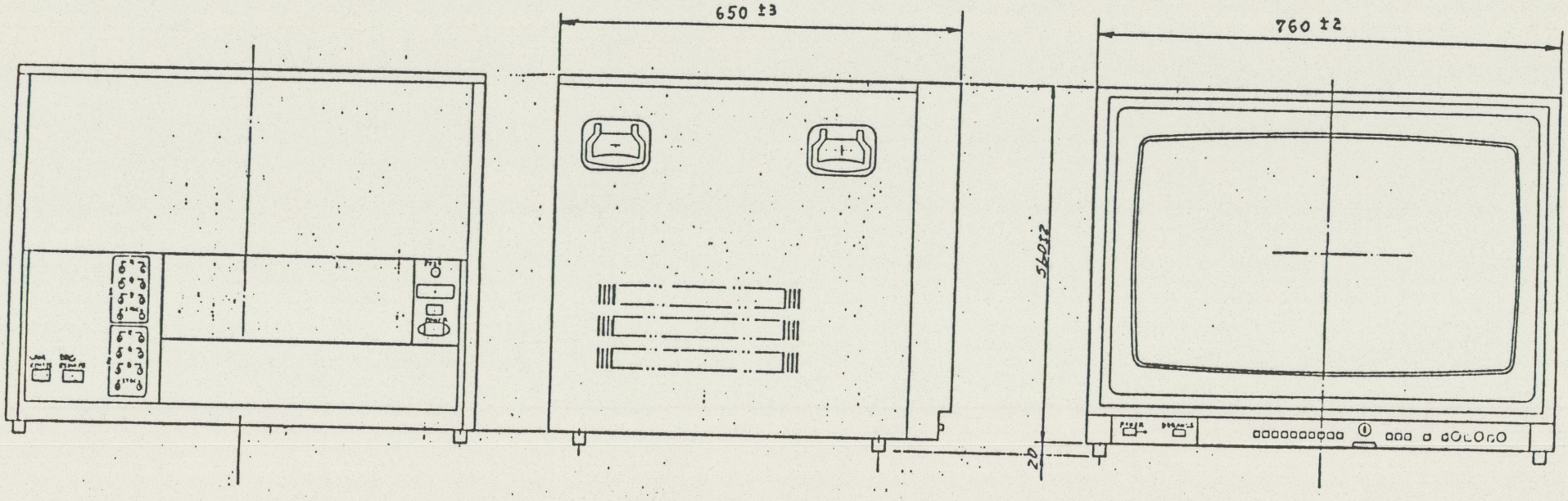


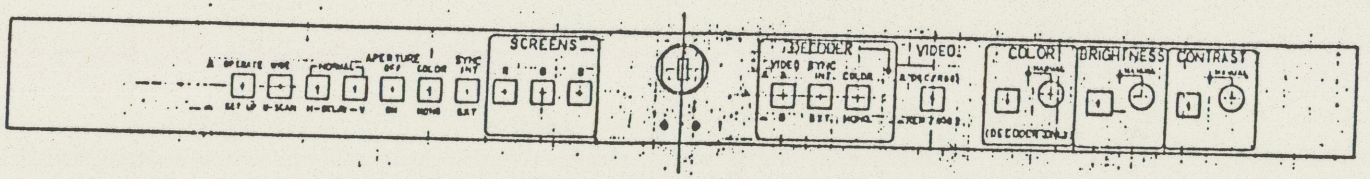
MODEL TM751HD COLOR MONITOR
BLOCK DIAGRAM

FIG. 3



MODEL TM251HD COLOR MONITOR
BLOCK DIAGRAM
FIG.3





CONTROL PANEL

MODEL TM751HD COLOR MONITOR
EXTERNAL APPEARANCE

FIG.4

FIG.4

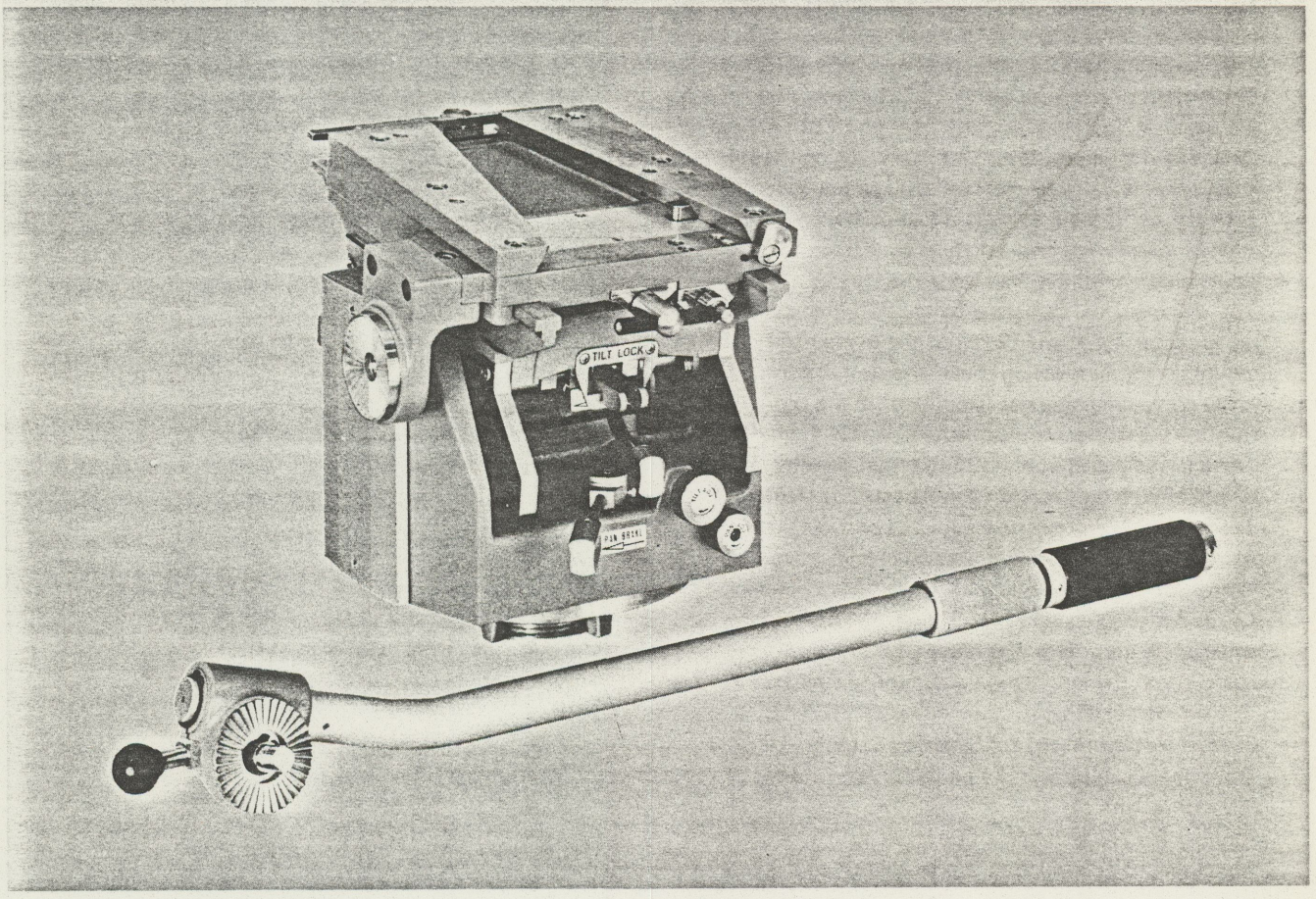
EXTERNAL APPEARANCE

MODEL TM15HD COLOR MONITOR

CONTROL PANEL

CAM HEAD

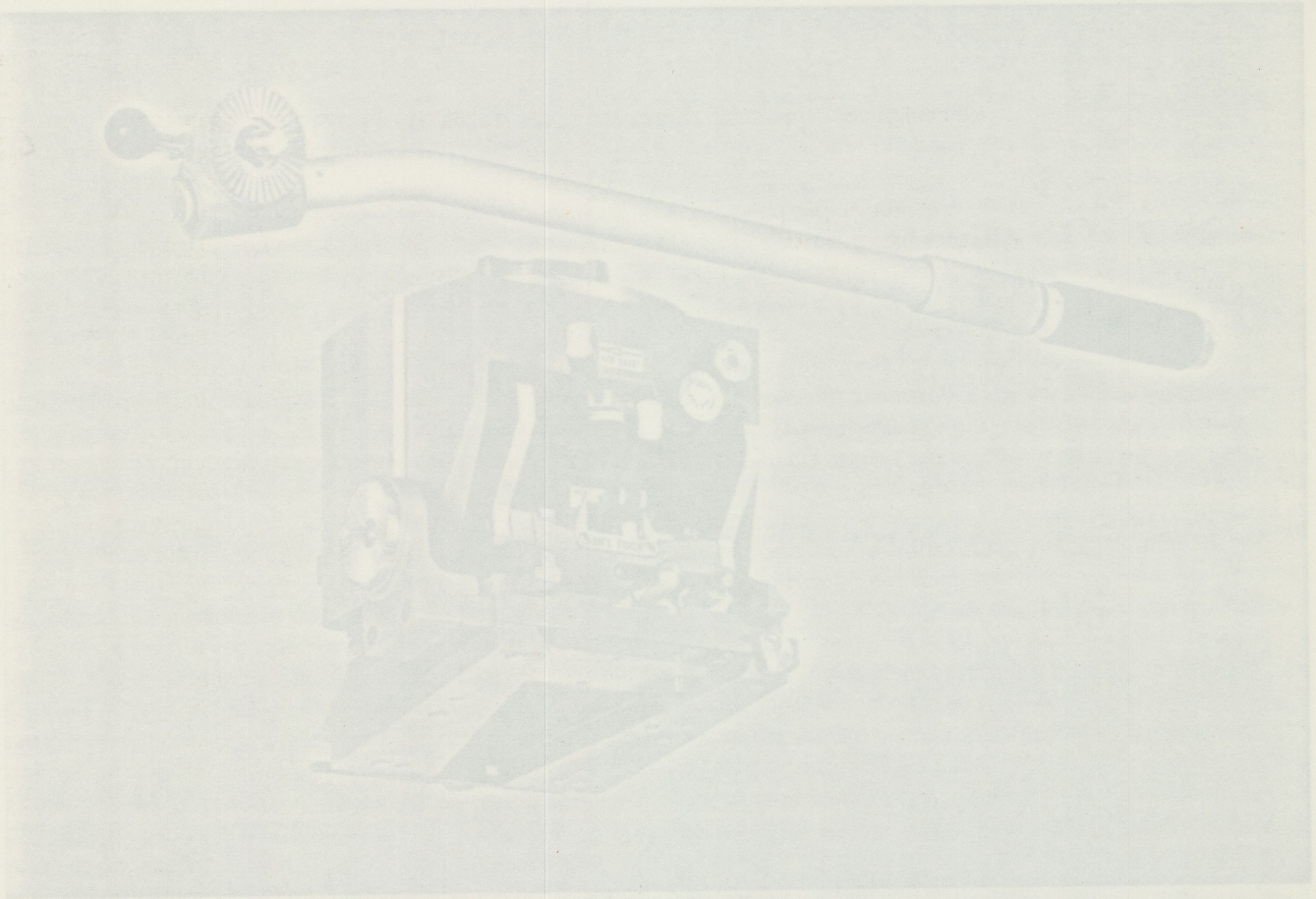
TE-02C



The TE-02C is designed to mount TV cameras, and is constructed to facilitate all camera operations including smooth tilting and panning. It is lightweight and easy to handle.

SPECIFICATIONS

Cam Head	
Panning Angle	360°
Tilting Angle	±50° (depression/elevation)
Center of Gravity Adjustment Range	Forward: 4cm Backward: 8cm
Camera Mounting Method	V attachment (provided)
Supporting Base Connection	Wing nuts
Max. Mounting Weight	150 kg
Dead Weight	14 kg
Panning Rod	
Stretching Stroke	25cm
Dead Weight	2.0kg



TE-05C

CAM HEAD

TE-02C

CONSTRUCTION

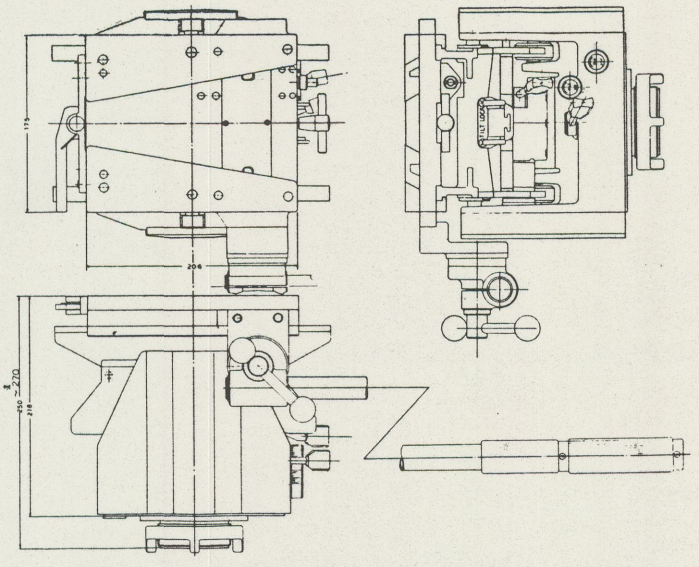
Cam Head

- Panning Mechanism
  This is designed to permit 360° panning. The angle of panning can be locked by means of the locking lever. The fine adjustment brake control knob permits the panning mechanism to be braked uniformly at any angle.
- Tilting Mechanism
  The weight of the T.V. camera is balanced using a special cam. Up to 50° of depression or elevation are possible. Increased angles of tilt permit better camera work. The angle of tilt can be locked by means of the locking lever and braked using the fine adjustment brake control knob. The tilting mechanism can be locked level using a pin for safety during camera mounting. In addition, the level lock pin permits the entire unit to be transported safely with the camera mounted, and maintenance of the mounted camera and lens changes are also simple.
- Camera Balancing Mechanism
  The weight of the camera is balanced by means of a specially designed cam. This cam is designed to move according to the height of the overall center of gravity of the mounted camera. When the cam moves on the supporting roller, the overall center of gravity shifts horizontally, which in turn causes the guide bar (stabilizer) in the center of the unit to move up and down. This interactions of these three components balances the camera. Through this mechanism, the camera can be perfectly balanced at any tilting angle, thereby ensuring smooth camera operation. When mounting a camera with a different overall center of gravity, balance can be maintained by employing a different cam as appropriate for the particular camera. The cam-mounting section is designed to be interchangeable, making it easy to change cams.
- Slide Base for Cmaera Balancing
  To ensure good camera balance, use the handle provided to shift the position of the slide base with the camera mounted. The range of adjustment is up to 4cm on the lens side (front) and 8cm at the back. When the lens is replaced, for example, camera balance can be maintained easily through this simple adjustment.
- Built-in V Attachment for Securing Camera
  The camera can be secured on the unit by means of the built-in V attachment which is designed for intercompatibility.
- Panning Rod Attachable on Both Sides
  A panning rod connection is provided on either side of the unit for ease of use.

Panning Rod

- Positioning of Panning Rod
- Turning the panning rod securing handle counterclockwise allows the panning rod to be freely rotated. Adjust and clamp the rod at the angle most convenient for the operator. Turning the clamping nut on the rod section counterclockwise permits the grip of the rod section to be shifted toward the axis. Adjust and fix the rod with the clamping nut at the length most convenient for the operator.
- Removing the Panning Rod
  The panning rod can be detached by turning the handle counterclockwise.

DIMENSIONS



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Tel. 0849-41-3335

CONSTRUCTION

Cam Head

- Panning Mechanism

This is designed to permit 360° panning. The angle of panning can be locked by means of the locking lever. The fine adjustment brake control knob permits the panning mechanism to be braked uniformly at any angle.

- Tilting Mechanism

The weight of the T.V. camera is balanced using a special cam. Up to 50° of depression or elevation are possible. Increased angles of tilt permit better camera work. The angle of tilt can be locked by means of the locking lever and braked using the fine adjustment brake control knob. The tilting mechanism can be locked level using a pin for safety during camera mounting. In addition, the level lock pin permits the entire unit to be transported safely with the camera mounted, and maintenance of the mounted camera and lens changes are also simple.

- Camera Balancing Mechanism

The weight of the camera is balanced by means of a specially designed cam. This cam is designed to move according to the height of the overall center of gravity of the mounted camera. When the cam moves on the supporting roller, the overall center of gravity shifts horizontally, which in turn causes the guide bar (stabilizer) in the center of the unit to move up and down. This interactions of these three components balances the camera. Through this mechanism, the camera can be perfectly balanced at any tilting angle, thereby ensuring smooth camera operation. When mounting a camera with a different overall center of gravity, balance can be maintained by employing a different cam as appropriate for the particular camera. The cam-mounting section is designed to be interchangeable, making it easy to change cams.

- Slide Base for Camera Balancing

To ensure good camera balance, use the handle provided to shift the position of the slide base with the camera mounted. The range of adjustment is up to 4cm on the lens side (front) and 8cm at the back. When the lens is replaced, for example, camera balance can be maintained easily through this simple adjustment.

- Built-in V Attachment for Securing Camera

The camera can be secured on the unit by means of the built-in V attachment which is designed for interchangeability.

- Panning Rod Attachable on Both Sides

A panning rod connection is provided on either side of the unit for ease of use.

Panning Rod

- Positioning of Panning Rod
- Turning the panning rod securing handle counterclockwise allows the panning rod to be freely rotated. Adjust and clamp the rod at the angle most convenient for the operator. Turning the clamping nut on the rod section counterclockwise permits the grip of the rod section to be shifted toward the axis. Adjust and fix the rod with the clamping nut at the length most convenient for the operator.
- Removing the Panning Rod

The panning rod can be detached by turning the handle counterclockwise.

DIMENSIONS

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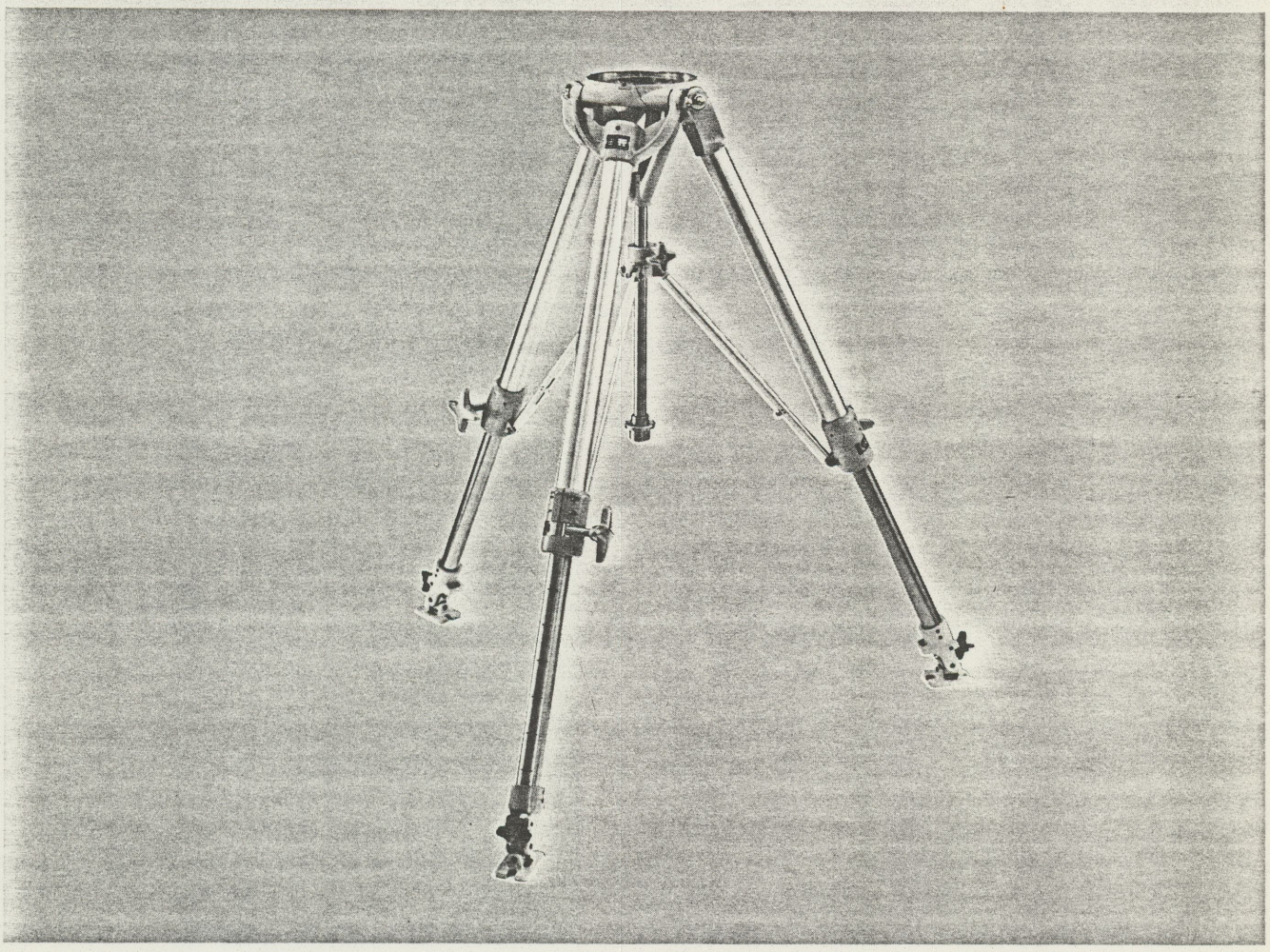
TRIPOD

TT-17D



The TT-17D tripod is designed to mount a cam head or friction head with a monochrome or color camera installed and is employed in filming inside TV studios or outside.

SPECIFICATIONS

Dimensions	See drawings for external dimensions. The height can be steplessly adjusted from 65cm up to 121cm (when the leg ends placed on the circumference of circle with a radius of 57cm).
Max. Mounting Weight	90kg
Dead Weight	11kg

TRIPOD

TT-172D

The TT-172D tripod is designed to mount a cam head or friction head with a monochrome or color camera installed and is employed in filming inside TV studios or outside.

SPECIFICATIONS

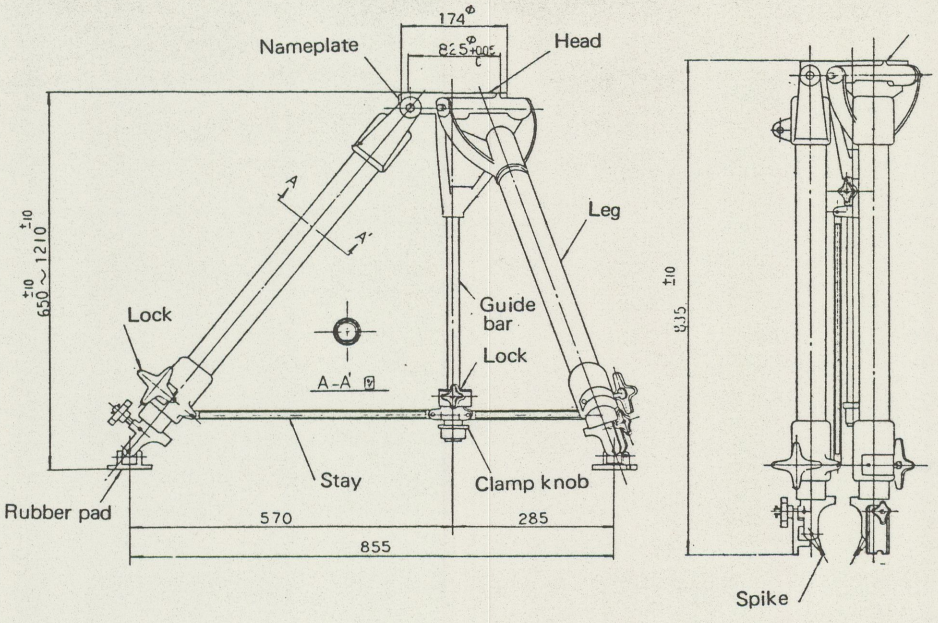
Dimensions	See drawings for external dimensions. The height can be steplessly adjusted from 65cm up to 172cm (when the leg ends placed on the circumference of circle with a radius of 57cm).
Max. Mounting Weight	90kg
Dead Weight	11kg

TT-17D

FEATURES

- The cam head or friction head mounting section is designed to be interchangeable.
- The bottoms of the legs are movable and can cope with practically any surface condition, flat or irregular and are designed so that they can be stood on a flat floor, mounted on a dolly or stuck into ground.
- The legs are collapsible, making the unit easy to carry or transport.

DIMENSIONS



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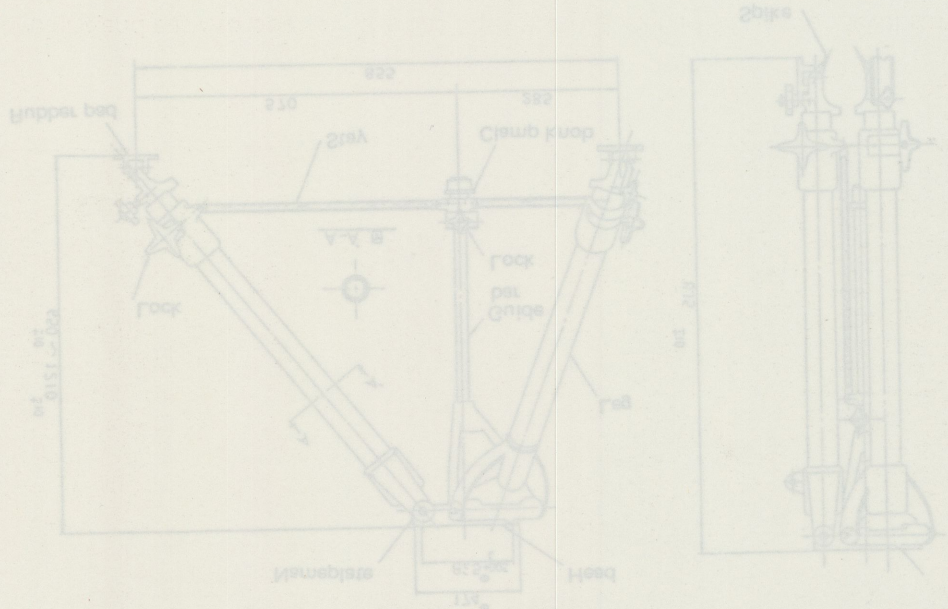


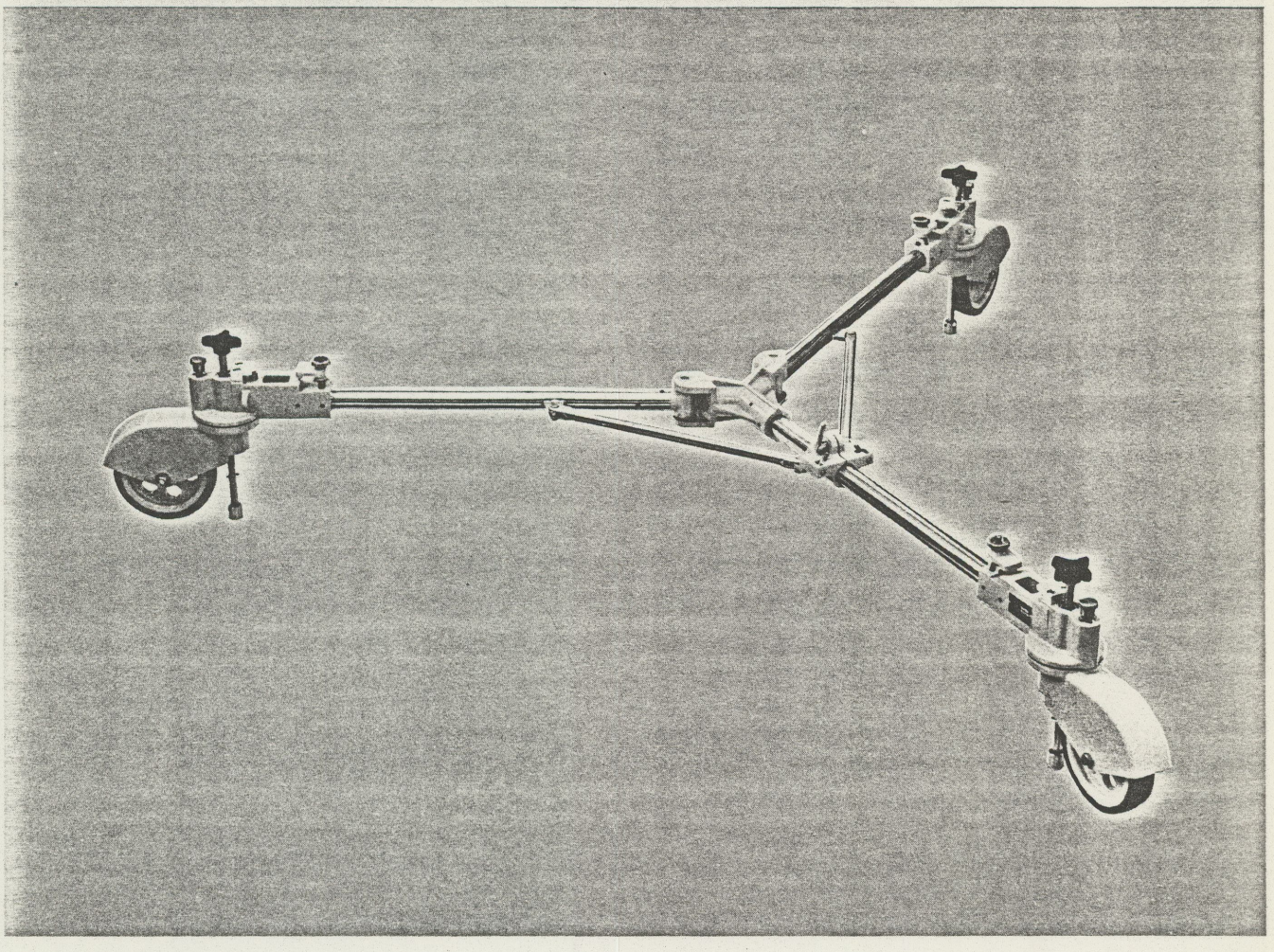
DIMENSIONS

FEATURES

- The legs are collapsible, making the unit easy to carry or transport.
- The bottoms of the legs are movable and can cope with practically any surface condition.
- The cam head or friction head mounting section is designed to be interchangeable.

DOLLY

TD-13



Lightweight and easy to operate, the TD-13 dolly is designed for use on level surfaces inside TV studios or outside, in combination with tripods with various types of camera mounted.

SPECIFICATIONS

Dimensions	See drawings.
Max. Mounting Weight	90kg
Dead Weight	8kg

DOLLY

TD-13

Lightweight and easy to operate, the TD-13 dolly is designed for use on level surfaces inside TV studios or outside, in combination with tripods with various types of camera mounted.

SPECIFICATIONS

Dimensions	See drawings.
Max. Mounting Weight	80kg
Dead Weight	8kg

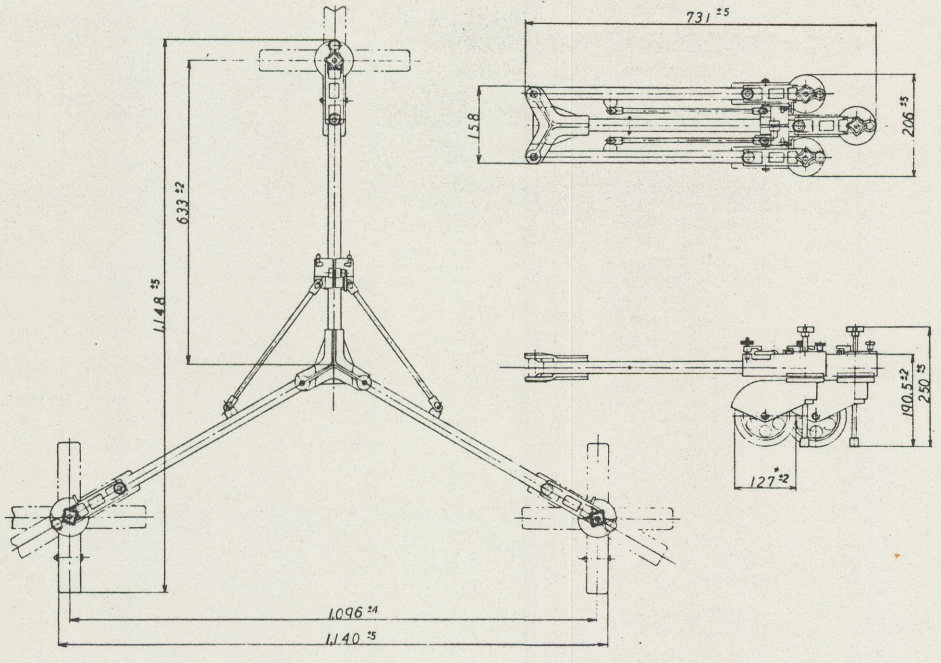
SHOTOKU LTD.

TD-13

FEATURES

- The tricycle caster undercarriage permits free meandering or unidirectional movement with the casters locked in parallel. In addition, stand mechanisms can be used to elevate the casters, thereby immobilizing the dolly.
- The collapsible design makes the TD-13 easy to carry or transport.

DIMENSIONS



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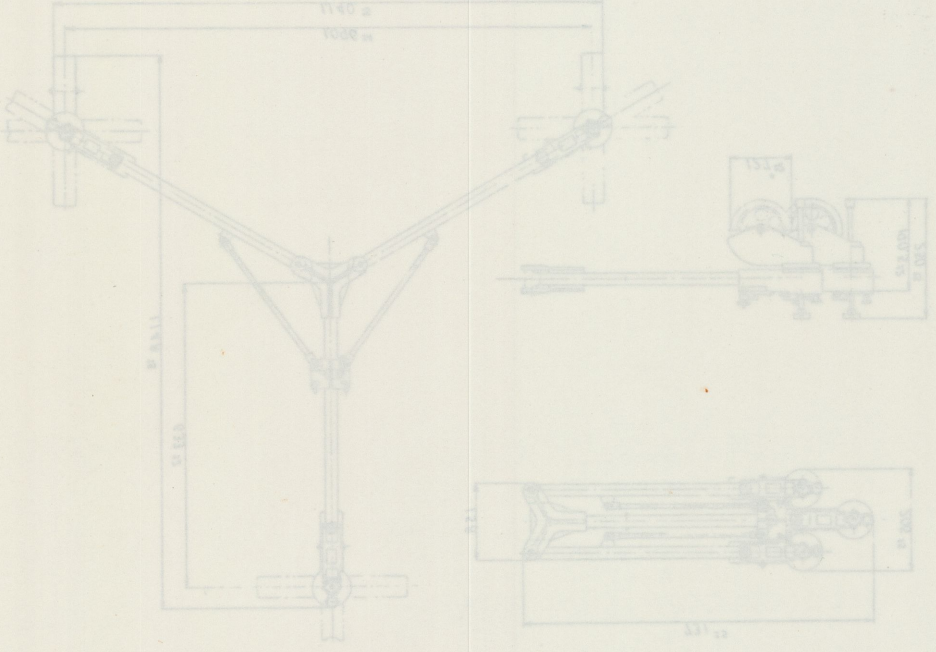

DIMENSIONS

FEATURES

- The collapsible design makes the TD-F3 easy to carry or transport.
- The tricycle castor nudercarriage permits free measuring or multidirectional movement.
  With the casters locked in parallel, in addition, stand mechanisms can be used to elevate the castors, thereby immobilizing the dolly.

TD-F3

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